Permit #F00166292
FilmL.A., Inc.
6255 W Sunset Blvd, 12th Floor
Hollywood, CA 90028
t: (213)977-8600 - f: (213)977-8601
www.filmla.com

Summary Information

Permit No: F00166292 **Type of Permit:** FILMING **Release Date:** 12/11/2020

Production Company	BACK BREAKER FILMS, INC.
Insured Company Name	BACK BREAKER FILMS, INC.
Contact Phone No. 1	213-926-5090
Contact Phone No. 2	
Fax	
Address	10202 W. WASHINGTON BLVD., #278 CULVER CITY, California 90230
Production Title	HAIKU #87
Type of Production	Feature

Producer	Brent O'Connor
Director	David Leitch
1st AD	Paul Barry
Production Manager	Brian Yaconelli
FilmL.A. Coordinator	CJ Leavens
Location Manager	Dan Williams
Primary Phone	Mobile - 310-704-4779
Secondary Phone	Office - 310-244-2969
Location Assistant	Matt Petras
Primary Phone	Mobile - 310-293-2950
Secondary Phone	

Fees

Posting 300	$69.00
Posting 600	$138.00
Posting 900	$207.00
Notification Charge	$946.00
FILMLA NON-REFUNDABLE FILM APPLICATION FEE	$699.00
LA COUNTY MOTION FEE - PARKS	$400.00
LA COUNTY FIRE REVIEW	$282.00
LA COUNTY ROAD INSPECTION FEE	$378.00
LA COUNTY ROAD APPLICATION FEE	$172.00
LA CITY FIRE SAFETY OFFICER	$1,962.00
LA CITY FIRE DEPARTMENT SPOT CHECK SURCHARGE	$85.00
FILMLA MONITOR FEES	$260.00
FILMLA MONITOR FEES OVERTIME	$196.00
FILMLA MONITOR FEES - DOUBLE TIME	$520.00
LA COUNTY-SPECIAL EFFECTS PERMIT FEE	$288.00
LA COUNTY ROAD ENCROACHMENT PERMIT PROCESSING FEE	$312.00

Total Permit Fee $6,914.00

Number of Locations 12

NOT A PERMIT

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Summary Information — Location

Location 1 of 12

Permit Number F00166292
Production Company BACK BREAKER FILMS, INC.
Insured Company BACK BREAKER FILMS, INC.
Production Title HAIKU #87

Location Manager Dan Williams
Primary Phone Mobile - 310-704-4779
Secondary Phone Office - 310-244-2969

Location Address Frank Ct, 6th St - 7th St, Los Angeles, CA 90013

Location Type Alley

Prep Dates 12/14/2020 - 12/14/2020 06:00 - 22:00 1 day

Film Dates 12/15/2020 - 12/15/2020 06:00 - 22:00 1 day

Open or Closed to the Public Closed

Generic Conditions
*** MUST COMPLY WITH ATTACHED REOPENING PROTOCOL FOR MUSIC, TELEVISION AND FILM PRODUCTION: APPENDIX J EFFECTIVE AS OF FRIDAY, JUNE 12, 2020.***
THE CONSUMPTION OF ALCOHOLIC BEVERAGES AND THE USE OF DRUGS, INCLUDING MARIJUANA, ON LOCATION BY ANY CAST, CREW, OR INVITED GUESTS IS STRICTLY PROHIBITED.
*Certain service and personnel fees required by jurisdictional agencies are not collected by FilmL.A. Any such fees must be paid directly to the appropriate agency, and a separate invoice will be provided to the permittee.
All vehicles must be parked on private property
Must comply with attached conditions
Must Maintain 5' Clearance on Sidewalks/Walkways
Must maintain local/emergency access
No cast or crew parking on area streets
No interference with merchant activity.
No stopping or setting up in front of merchants or residents without prior approval
Notify LAPD Central Division (213) 486-6606 and comm. (213) 978-6552 1/2 hour prior to any gunfire, brandishing weapons, special effects or simulated emergency or criminal activity.
Number of uniformed officers listed on the permit is a minimum requirement. Permittee remains responsible for deploying a sufficient number of uniformed officers to provide traffic and crowd control to ensure the safety of the film crew and the public.
Traffic control must be done in accordance w/MUTCD
Traffic Officers Required
Uniformed officers shall have a copy of the film permit in their possession and are required to confirm that all traffic control signage devices are in place.

Please see attached documents
BACKBREAKER FILMS dan williams 12.11.2020.pdf
Downtown Filming Guildelines 2010.03.01.pdf

Equipment on Location

Type	Quantity
10 Ton Truck	5
Cast/Crew vehicles	175
Condors	2
Cube Trucks	5
Generator	3
Modular Units	2
Semi Trucks	2
Stakebed Trucks	2
Trailers	8
Vans	5

Personnel on Location

Type	Quantity
Cast	15
Crew	200
FilmL.A. Monitor(s)	1
Off-Duty/Retired LAPD Officer(s)	2

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Summary Information — Location

Permit Number F00166292
Production Company BACK BREAKER FILMS, INC.
Insured Company BACK BREAKER FILMS, INC.
Production Title HAIKU #87

Location Manager Dan Williams
Primary Phone Mobile - 310-704-4779
Secondary Phone Office - 310-244-2969

Filming Activities Atmospheric smoke effects (water based); Brandishing weapons; Equipment on sidewalk, in curb lane & across street; Exterior Dialogue; Intermittent pedestrian control; Intermittent traffic control - 2 minutes standard; Rain effects; Wetdown; condors; Actors Fist Fighting; Filming in Palace Breezway and Frank Ct too;

Jurisdiction **Political:** Los Angeles City - Council District 14 **Police:** Los Angeles Police **Fire:** Los Angeles City Department

Thomas Guide **Page:** 634 **Grid:** F4

Approvals LOS ANGELES CITY POLICE DEPARTMENT — Gabriel Martinez
FILML.A. MONITORS — Adam Meyer Approver

Coordinator Note
Person Responsible for Covid-19 Compliance: Christopher Stagner
Phone: 805-328-9675

Coordinator Note FilmLA Monitor required 12/15 0200-2200 (20 hours)
Monitor for Frank Ct and Basecamp location 330 S Main St

Parking

Base Camp
Location Type : Other Location
330 S Main St, Los Angeles, CA, 90013

Crew Parking
Location Type : Other Location
330 S Main St, Los Angeles, CA, 90013

Parking Notes
Hours will be 3:00 AM to 10:00 PM

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Summary Information — Location

Permit Number F00166292
Production Company BACK BREAKER FILMS, INC.
Insured Company BACK BREAKER FILMS, INC.
Production Title HAIKU #87

Location Manager Dan Williams
Primary Phone Mobile - 310-704-4779
Secondary Phone Office - 310-244-2969

This location has been CANCELED

Location Address W 7th St., S Broadway - S Spring St, Los Angeles, CA, 90014
Location Type Street
Prep Dates 12/14/2020 - 12/17/2020 07:00 - 19:00 4 days
Film Dates 12/17/2020 - 12/18/2020 12:00 - 07:00 2 days
Strike Dates 12/19/2020 - 12/21/2020 07:00 - 19:00
Open or Closed to the Public Closed
Please see attached document Downtown Filming Guildelines 2010.03.01.pdf

Equipment on Location

Type	Quantity
5 or 10 ton trucks	4
Cast/Crew vehicles	80
Cube Trucks	4
Generator	1
Stakebed Trucks	2
Trailers	6
Vans	4

Personnel on Location

Type	Quantity
Cast	5
Crew	75

Filming Activities CANCEL LOCATION;
Jurisdiction **Political:** Los Angeles City - Council District 14 **Police:** Los Angeles Police Department **Fire:** Los Angeles City
Thomas Guide Page: 634 **Grid:** G4
Parking
Base Camp
Location Type : To Be Determined
Crew Parking
Location Type : To Be Determined
Lane / Full Closure FULL CLOSURE 7TH ST, BROADWAY - SPRING ST
Approximate Footage 0 - 300
Date(s) 12/17/2020 to 12/18/2020 **Time(s)** 12:00 to 07:00

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Summary Information — Location

Permit Number F00166292
Production Company BACK BREAKER FILMS, INC.
Insured Company BACK BREAKER FILMS, INC.
Production Title HAIKU #87

Location Manager Dan Williams
Primary Phone Mobile - 310-704-4779
Secondary Phone Office - 310-244-2969

This location has been CANCELED

Location Address 630 S Broadway, Los Angeles, CA, 90014
Location Name PALACE THEATER
Location Type Theater
Film Dates 12/17/2020 - 12/17/2020 00:00 - 00:00 1 day
Open or Closed to the Public Closed
Please see attached document Downtown Filming Guildelines 2010.03.01.pdf

Equipment on Location

Type	Quantity
10 Ton Truck	5
Cast/Crew vehicles	175
Condors	2
Cube Trucks	5
Generator	4
Modular Units	2
Semi Trucks	2
Stakebed Trucks	2
Trailers	8
Vans	5

Personnel on Location

Type	Quantity
Cast	5
Crew	175

Filming Activities CANCEL LOCATION;

Jurisdiction **Political:** Los Angeles City - Council District 14 **Police:** Los Angeles Police Department **Fire:** Los Angeles City

Thomas Guide Page: 634 **Grid:** F5

Parking

Base Camp
Location Type : To Be Determined

Crew Parking
Location Type : To Be Determined

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Summary Information — Location

Permit Number F00166292
Production Company BACK BREAKER FILMS, INC.
Insured Company BACK BREAKER FILMS, INC.
Production Title HAIKU #87

Location Manager Dan Williams
Primary Phone Mobile - 310-704-4779
Secondary Phone Office - 310-244-2969

This location has been CANCELED

Location Address 103 W 4th St, Los Angeles, CA, 90013

Location Type Business

Prep Dates 12/16/2020 - 12/16/2020 07:00 - 19:00 1 day

Film Dates 12/17/2020 - 12/17/2020 07:00 - 22:00 1 day

Strike Dates 12/18/2020 - 12/18/2020 07:00 - 19:00

Open or Closed to the Public Closed

Please see attached document Downtown Filming Guildelines 2010.03.01.pdf

Equipment on Location

Type	Quantity
10 Ton Truck	5
Cast/Crew vehicles	175
Condors	2
Cube Trucks	5
Generator	4
Modular Units	2
Semi Trucks	2
Stakebed Trucks	2
Trailers	8
Vans	5

Personnel on Location

Type	Quantity
Cast	5
Crew	175

Filming Activities Atmospheric smoke effects (water based); Brandishing weapons; Exterior Dialogue; Interior Dialogue; Rain effects; Wetdown; construction crane on street/sidewalk to drop stuntman from building ; condors; **********Location is completely cancelled**********;

Jurisdiction **Political:** Los Angeles City - Council District 14 **Police:** Los Angeles Police Department **Fire:** Los Angeles City

Thomas Guide **Page:** 634 **Grid:** F4

Parking

Base Camp
Location Type : To Be Determined

Crew Parking
Location Type : To Be Determined

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Summary Information — Location

Permit Number F00166292
Production Company BACK BREAKER FILMS, INC.
Insured Company BACK BREAKER FILMS, INC.
Production Title HAIKU #87

Location Manager Dan Williams
Primary Phone Mobile - 310-704-4779
Secondary Phone Office - 310-244-2969

This location has been CANCELED

Location Address 10700 Escondido Canyon Rd, Unincorporated Los Angeles County, CA, 91390
Location Name VASQUEZ ROCKS
Location Type Park
Prep Dates 12/18/2020 - 12/20/2020 07:00 - 22:00 3 days
Film Dates 12/21/2020 - 12/21/2020 06:00 - 22:00 1 day
Strike Dates 12/22/2020 - 12/22/2020 06:00 - 22:00
Open or Closed to the Public Closed

Equipment on Location

Type	Quantity
10 Ton Truck	5
Cast/Crew vehicles	100
Cube Trucks	5
Generator	2
Modular Units	2
Semi Trucks	2
Stakebed Trucks	2
Trailers	8
Vans	5

Personnel on Location

Type	Quantity
Cast	10
Crew	100

Filming Activities CANCEL LOCATION;

Jurisdiction **Political:** Los Angeles County - Supervisor District 5
Police: Los Angeles County Sheriff
Fire: Los Angeles County Fire Department

Thomas Guide Page: 4373
Grid: E7

Parking

Base Camp
Location Type : Filming Location

Crew Parking
Location Type : Other Location
AGUA DULCE AIRPORT
33638 Agua Dulce Canyon Rd, Unincorporated
Los Angeles County, CA 91390

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Summary Information — Location

Permit Number F00166292
Production Company BACK BREAKER FILMS, INC.
Insured Company BACK BREAKER FILMS, INC.
Production Title HAIKU #87

Location Manager Dan Williams
Primary Phone Mobile - 310-704-4779
Secondary Phone Office - 310-244-2969

Location Address 122 Winston St, Los Angeles, CA, 90013

Location Type Parking Lot

Prep Dates 12/14/2020 - 12/14/2020 06:00 - 22:00 1 day

Film Dates 12/15/2020 - 12/15/2020 06:00 - 22:00 1 day

Open or Closed to the Public Closed

Generic Conditions
*** MUST COMPLY WITH ATTACHED REOPENING PROTOCOL FOR MUSIC, TELEVISION AND FILM PRODUCTION: APPENDIX J EFFECTIVE AS OF FRIDAY, JUNE 12, 2020.***
THE CONSUMPTION OF ALCOHOLIC BEVERAGES AND THE USE OF DRUGS, INCLUDING MARIJUANA, ON LOCATION BY ANY CAST, CREW, OR INVITED GUESTS IS STRICTLY PROHIBITED.
*Certain service and personnel fees required by jurisdictional agencies are not collected by FilmL.A. Any such fees must be paid directly to the appropriate agency, and a separate invoice will be provided to the permittee.
Community Survey Obtained
CROSSOVERS/CABLING ACROSS STREET I: Not allowed on street without prior approval.
Equipment staging and vehicles may park on one side of the street only.
Must comply with attached conditions
Must Maintain 5' Clearance on Sidewalks/Walkways
Must maintain local/emergency access
No cast or crew parking on area streets
No interference with merchant activity.
No stopping or setting up in front of merchants or residents without prior approval
Number of uniformed officers listed on the permit is a minimum requirement. Permittee remains responsible for deploying a sufficient number of uniformed officers to provide traffic and crowd control to ensure the safety of the film crew and the public.
Traffic control must be done in accordance w/MUTCD
Traffic Officers Required
Uniformed officers shall have a copy of the film permit in their possession and are required to confirm that all traffic control signage devices are in place.

Please see attached documents
12.15.2020 SCHWALM U 30501.pdf
Downtown Filming Guildelines 2010.03.01.pdf

Equipment on Location

Type	Quantity
Cast/Crew vehicles	100
Condors	2
Cranes	2
Cube Trucks	5
Generator	4
Modular Units	2
Semi Trucks	2
Stakebed Trucks	2
Trailers	8
Vans	5

Personnel on Location

Type	Quantity
Cast	10
Crew	165
Extras	25
Off-Duty/Retired LAPD Officer(s)	2

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Summary Information — Location

Permit Number F00166292
Production Company BACK BREAKER FILMS, INC.
Insured Company BACK BREAKER FILMS, INC.
Production Title HAIKU #87

Location Manager Dan Williams
Primary Phone Mobile - 310-704-4779
Secondary Phone Office - 310-244-2969

Filming Activities Atmospheric smoke effects (water based); Interior Dialogue; Intermittent pedestrian control; Intermittent traffic control - 2 minutes standard; Wetdown; Condor lifts for lighting and set dressing.;

Special Effects: F/X Permit # 30501

Type	No. Times Per Day	No. Takes Per Take

Jurisdiction **Political:** Los Angeles City - Council District 14 **Police:** Los Angeles Police Department **Fire:** Los Angeles City

Thomas Guide **Page:** 634 **Grid:** F4

Approvals LOS ANGELES CITY POLICE DEPARTMENT Gabriel Martinez

Coordinator Note
Person Responsible for Covid-19 Compliance: Christopher Stagner
Phone: 805-328-9675

Parking

Base Camp
Location Type : Other Location
330 S Main St, Los Angeles, CA, 90013

Crew Parking
Location Type : Other Location
330 S Main St, Los Angeles, CA, 90013

Parking Notes
Hours will be 3:00 AM to 10:00 PM

Truck Lot 416 S Main St

Posting "No Parking" signs S/S OF WINSTON BETWEEN LOS ANGELES AND MAIN
W/S LOS ANGELES ST, FROM WINSTON SOUTH 100'

Approximate Footage 601 - 900 **Log Number** 293919

Date(s) 12/14/2020 to 12/15/2020 **Time(s)** 00:00 to 00:00

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Summary Information — Location

Permit Number F00166292
Production Company BACK BREAKER FILMS, INC.
Insured Company BACK BREAKER FILMS, INC.
Production Title HAIKU #87

Location Manager Dan Williams
Primary Phone Mobile - 310-704-4779
Secondary Phone Office - 310-244-2969

This location has been CANCELED

Location Address 421 Werdin Pl, Los Angeles, CA, 90013

Location Type Alley

Prep Dates 12/13/2020 - 12/14/2020 07:00 - 22:00 2 days

Film Dates 12/15/2020 - 12/15/2020 05:00 - 22:00 1 day

Strike Dates 12/16/2020 - 12/16/2020 07:00 - 22:00

Open or Closed to the Public Closed

Generic Conditions
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*Certain service and personnel fees required by jurisdictional agencies are not collected by FilmL.A. Any such fees must be paid directly to the appropriate agency, and a separate invoice will be provided to the permittee.
All travel lanes and bike lanes shall be closed per the WATCH manual.
Community Survey Required
CROSSOVERS/CABLING ACROSS STREET I: Not allowed on street without prior approval.
Equipment staging and vehicles may park on one side of the street only.
Must comply with attached conditions
Must Maintain 5' Clearance on Sidewalks/Walkways
Must maintain local/emergency access
No cast or crew parking on area streets
No interference with merchant activity.
No stopping or setting up in front of merchants or residents without prior approval
Notify LAPD Central Division (213) 486-6606 and comm. (213) 978-6552 1/2 hour prior to any gunfire, brandishing weapons, special effects or simulated emergency or criminal activity.
Number of uniformed officers listed on the permit is a minimum requirement. Permittee remains responsible for deploying a sufficient number of uniformed officers to provide traffic and crowd control to ensure the safety of the film crew and the public.
Traffic control must be done in accordance w/MUTCD
Traffic Officers Required
Uniformed officers shall have a copy of the film permit in their possession and are required to confirm that all traffic control signage devices are in place.

Please see attached document Downtown Filming Guildelines 2010.03.01.pdf

Equipment on Location

Type	Quantity
10 Ton Truck	5
Cast/Crew vehicles	100
Condors	4
Cranes	2
Cube Trucks	5
Generator	4

Personnel on Location

Type	Quantity
Cast	10
Crew	165
Extras	30
Off-Duty/Retired LAPD Officer(s)	2

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Summary Information — Location

Permit Number F00166292
Production Company BACK BREAKER FILMS, INC.
Insured Company BACK BREAKER FILMS, INC.
Production Title HAIKU #87

Location Manager Dan Williams
Primary Phone Mobile - 310-704-4779
Secondary Phone Office - 310-244-2969

Modular Units	2
Semi Trucks	2
Stakebed Trucks	2
Trailers	8
Vans	5

Filming Activities Brandishing weapons; Drive ups & away; Equipment on sidewalk, in curb lane & across street; Interior and exterior dialogue; Intermittent pedestrian control; Intermittent traffic control - 2 minutes standard; Street dressed for Latin America; Thin layer of dirt on street; **********Cancel this location completely**********;

Gunfire

Shot Type	Load Type	No. Takes Per Day	No. Times Per Take
Exterior Automatic	Full Load	15 - 20	15 - 20
Exterior Single Shot	Full Load	15 - 20	15 - 20

Jurisdiction **Political:** Los Angeles City - Council District 14 **Police:** Los Angeles Police **Fire:** Los Angeles City Department

Thomas Guide Page: 634 **Grid:** F4

Parking

Base Camp
Location Type : To Be Determined

Crew Parking
Location Type : To Be Determined

Lane / Full Closure B/S SIDEWALK CLOSURE: WINSTON ST, S MAIN ST - LOS ANGELES
Approximate Footage 0 - 300
Date(s) 12/15/2020 to 12/15/2020 **Time(s)** 06:00 to 22:00

Lane / Full Closure S/S 5TH, S MAIN ST - WERDIN PL
Approximate Footage 0 - 300
Date(s) 12/15/2020 to 12/15/2020 **Time(s)** 05:00 to 22:00

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Summary Information — Location

Permit Number F00166292
Production Company BACK BREAKER FILMS, INC.
Insured Company BACK BREAKER FILMS, INC.
Production Title HAIKU #87

Location Manager Dan Williams
Primary Phone Mobile - 310-704-4779
Secondary Phone Office - 310-244-2969

This location has been CANCELED

Location Address 808 S Olive St, Los Angeles, CA, 90014

Location Type Parking Structure

Prep Dates 12/14/2020 - 12/14/2020 07:00 - 19:00 1 day

Film Dates 12/15/2020 - 12/15/2020 06:00 - 22:00 1 day

Open or Closed to the Public Closed

Please see attached document Downtown Filming Guildelines 2010.03.01.pdf

Equipment on Location

Type	Quantity
10 Ton Truck	5
Cast/Crew vehicles	175
Condors	2
Cube Trucks	5
Generator	4
Modular Units	2
Semi Trucks	2
Stakebed Trucks	2
Trailers	8
Vans	5

Personnel on Location

Type	Quantity
Cast	10
Crew	175

Filming Activities CANCEL LOCATION;

Gunfire

Shot Type	Load Type	No. Takes Per Day	No. Times Per Take
Exterior Automatic	Full Load	15 - 20	15 - 20
Exterior Single Shot	Full Load	15 - 20	15 - 20

Jurisdiction **Political:** Los Angeles City - Council District 14 **Police:** Los Angeles Police Department **Fire:** Los Angeles City

Thomas Guide Page: 634 **Grid:** E5

Parking

Base Camp
Location Type : To Be Determined

Crew Parking
Location Type : To Be Determined

Posting "No Parking" signs 8TH ST - 100 FT IN FRONT OF 410 W. 8TH ST

Approximate Footage 0 - 300 **Log Number**

Date(s) 12/14/2020 to 12/15/2020 **Time(s)** 06:00 to 22:00

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Summary Information — Location

Permit Number F00166292
Production Company BACK BREAKER FILMS, INC.
Insured Company BACK BREAKER FILMS, INC.
Production Title HAIKU #87

Location Manager Dan Williams
Primary Phone Mobile - 310-704-4779
Secondary Phone Office - 310-244-2969

This location has been CANCELED

Location Address 33638 Agua Dulce Canyon Rd, Unincorporated Los Angeles County, CA 91390

Location Name AGUA DULCE AIRPORT

Location Type Airport

Prep Dates 12/20/2020 - 12/20/2020 06:00 - 22:00 1 day

Film Dates 12/21/2020 - 12/21/2020 06:00 - 22:00 1 day

Open or Closed to the Public Closed

Please see attached document CUP- Agua Dulce Airpark REVISED 11.19.2014.pdf

Equipment on Location

Type	Quantity
10 Ton Truck	5
Cast/Crew vehicles	100
Cube Trucks	5
Generator	2
Modular Units	2
Semi Trucks	2
Stakebed Trucks	2
Trailers	8
Vans	5

Personnel on Location

Type	Quantity
Cast	10
Crew	100

Filming Activities CANCEL LOCATION;

Jurisdiction **Political:** Los Angeles County - Supervisor District 5
Police: Los Angeles County Sheriff
Fire: Los Angeles County Fire Department

Thomas Guide Page: 4373
Grid: E3

Parking

Base Camp
Location Type : Filming Location

Crew Parking
Location Type : Filming Location

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Summary Information — Location

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Production Title HAIKU #87

Location Manager Dan Williams
Primary Phone Mobile - 310-704-4779
Secondary Phone Office - 310-244-2969

Location Address 41657 150th St E, Unincorporated Los Angeles County, CA 93535
Location Name ROCKY BUTTES MOVIE RANCH
Location Type Ranch
Prep Dates 12/12/2020 - 12/12/2020 07:00 - 22:00 1 day
Film Dates 12/13/2020 - 12/14/2020 04:00 - 22:00 2 days
Strike Dates 12/15/2020 - 12/15/2020 07:00 - 22:00
Open or Closed to the Public Closed

Generic Conditions
*** MUST COMPLY WITH ATTACHED REOPENING PROTOCOL FOR MUSIC, TELEVISION AND FILM PRODUCTION: APPENDIX J EFFECTIVE AS OF FRIDAY, JUNE 12, 2020.***
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*Certain service and personnel fees required by jurisdictional agencies are not collected by FilmL.A. Any such fees must be paid directly to the appropriate agency, and a separate invoice will be provided to the permittee.
FAA (UAS): Failure to adhere to any applicable limitations of UAS usage will result in immediate shutdown of UAS activity
FAA (UAS): Production company must notify Air Operations for LAPD (213-485-2600) and LAFD (818-756-8635) at least 1/2 hour prior to activity.
FAA (UAS): UAS may not be operated directly over any person, unless authorized by FAA
FAA (UAS): UAS must be operated at an altitude of no more than 400' above ground level
FAA (UAS): UAS Operator must conform with all FAA Regulations
FAA: Aviation activity must conform to accepted FAA plan of activities.
FAA: Aviation activity will be conducted within normal FAA established guidelines.
FAA: Company must notify LASD AERO BUREAU at least 1/2 hour prior to activity, aerosgtnotification@lasd.org 562.421.2701.
FAA: LASD AERO BUREAU has been notified of aerial activity.
Must contact local sheriff department ½ hour prior to any brandishing of weapons, gunfire, special effects, or aerial activity.
Must Maintain 5' Clearance on Sidewalks/Walkways
Must maintain local/emergency access
No cast or crew parking on area streets
No interference with merchant activity.
No interference with vehicular or pedestrian traffic
No stopping or setting up in front of merchants or residents without prior approval
Number of uniformed officers listed on the permit is a minimum requirement. Permittee remains responsible for deploying a sufficient number of uniformed officers to provide traffic and crowd control to ensure the safety of the film crew and the public.
Uniformed officers shall have a copy of the film permit in their possession and are required to confirm that all traffic control signage devices are in place.

Please see attached documents
Film LA UAS Questionnaire_Back Breaker.pdf
_Exemption 18006 75lbs.pdf
_107W-2016-00601D_Astraeus_CoW.pdf
UAS Cert X8 994FA3MXFKETF.pdf
Corey RPL & Renewal.pdf
_Alta Pair AB.pdf
poa drone.pdf
Joshua-Tree-Protections-flyer.pdf
20-FX323-114 - Haiku 87 - Jim Schwalm.pdf

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FilmL.A., Inc.
6255 W Sunset Blvd, 12th Floor
Hollywood, CA 90028
t: (213)977-8600 - f: (213)977-8601
www.filmla.com

Summary Information — Location

Permit Number F00166292
Production Company BACK BREAKER FILMS, INC.
Insured Company BACK BREAKER FILMS, INC.
Production Title HAIKU #87

Location Manager Dan Williams
Primary Phone Mobile - 310-704-4779
Secondary Phone Office - 310-244-2969

Equipment on Location

Type	Quantity
10 Ton Truck	5
4000 gal water truck	1
Cast/Crew vehicles	200
Cube Trucks	5
Fire Extinguisher (2A10BC Minimum Rating)	5
Generator	4
Modular Units	2
Semi Trucks	2
Stakebed Trucks	2
Trailers	8
Vans	5

Personnel on Location

Type	Quantity
Cast	10
Crew	175
Extras	60
LA County FSA assigned	1
Sheriff/CHP	1

Filming Activities Aerial Photography with remote control aircraft. (UAS); Atmospheric smoke effects (water based); Brandishing weapons; Camera on sticks; Equipment on property; Interior and exterior dialogue; Wetdown; Truck parked on road; Picture cars; Drone on 12/13 only; Smaller cast and crew count on 12/13; Gunfire from 0700-2200 only; Also filming at APN 3363017016;

Gunfire

Shot Type	Load Type	No. Takes Per Day	No. Times Per Take
Exterior Automatic	1/2 load	15 - 20	15 - 20
Exterior Single Shot	1/2 load	15 - 20	15 - 20

Special Effects: F/X Permit # 20-FX323-114

Type	No. Times Per Day	No. Takes Per Take

Jurisdiction **Political:** Los Angeles County - Supervisor District 5 **Police:** Los Angeles County Sheriff **Fire:** Los Angeles County Fire Department

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Approvals LOS ANGELES COUNTY PUBLIC WORKS - FINAL Greg Graham Final Approver APPROVERS

Coordinator Note Person Responsible for Covid-19 Compliance: Christopher Stagner
Phone: 805-328-9675

Coordinator Note LA County Fire Permit #20-1935-114/117 FSA, 4000 gallon water truck, and (5) 2A10BC Fire Extinguishers required

Coordinator Note %u2022 All filming activities and parking shall be maintained within parcel 3363017018. Activities shall not encroach into adjacent parcels.
%u2022 All equipment should be clean prior to bringing it to the site.
%u2022 Limit driving to already existing roads and disturbed areas free of vegetation.
%u2022 All vehicles should stay within established roads and barren areas. Under no circumstances are vehicles allowed to travel outside the existing disturbed areas and road paths. All activities to be maintained within existing disturbed areas.
%u2022 No activity permitted within undisturbed areas.
%u2022 Dispose of all waste in a correct manner. Trash removal should be done by hand.

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Summary Information — Location

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Insured Company BACK BREAKER FILMS, INC.
Production Title HAIKU #87

Location Manager Dan Williams
Primary Phone Mobile - 310-704-4779
Secondary Phone Office - 310-244-2969

%u2022 Removal of vegetation is prohibited. Vegetations shall not be trampled or damaged.
%u2022 Grading, excavation, soil fill, and/or trenching are prohibited.
%u2022 All vehicles, props, and equipment must be removed from the property after filming.
%u2022 Joshua Trees are now a Candidate species for listing under the Endangered Species Act. Any activity that may damage a Joshua Tree or its surrounding seedbank will require an Incidental Take Permit (ITP) from the California Department of Fish & Wildlife (CDFW) and an SEA Conditional Use Permit from Department of Regional Planning. In order to avoid any impacts of Joshua Trees or its seedbank, make sure all activity is kept away from Joshua trees at the distances listed below.
%u2022 For western Joshua trees 5 meters (16 ft.) or greater in height: 40 feet distance
%u2022 For western Joshua trees less than 5 meters but more than 1 meter (40 in.) in height: 12 feet distance
%u2022 For western Joshua trees 1 meter or less in height: 6 feet distance

Parking

Base Camp 40599 150th St E, Palmdale, CA, 93591
Location Type : Other Location

Crew Parking 40599 150th St E, Palmdale, CA, 93591
Location Type : Other Location

Parking Notes
Crew Parking / Base Camp for 12/13,14
40599 150th St E, Lancaster, CA 93535

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Summary Information — Location

Location 11 of 12

Permit Number F00166292
Production Company BACK BREAKER FILMS, INC.
Insured Company BACK BREAKER FILMS, INC.
Production Title HAIKU #87

Location Manager Dan Williams
Primary Phone Mobile - 310-704-4779
Secondary Phone Office - 310-244-2969

Location Address 200th ST E From E Ave G to Ave J, Unincorporated Los Angeles County, CA, 93535

Location Type Road

Film Dates 12/14/2020 - 12/14/2020 05:00 - 12:00 1 day

Open or Closed to the Public Closed

Generic Conditions *** MUST COMPLY WITH ATTACHED REOPENING PROTOCOL FOR MUSIC, TELEVISION AND FILM PRODUCTION: APPENDIX J EFFECTIVE AS OF FRIDAY, JUNE 12, 2020.***
THE CONSUMPTION OF ALCOHOLIC BEVERAGES AND THE USE OF DRUGS, INCLUDING MARIJUANA, ON LOCATION BY ANY CAST, CREW, OR INVITED GUESTS IS STRICTLY PROHIBITED.
*Certain service and personnel fees required by jurisdictional agencies are not collected by FilmL.A. Any such fees must be paid directly to the appropriate agency, and a separate invoice will be provided to the permittee.
All travel lanes and bike lanes shall be closed per the WATCH manual.
Must contact local sheriff department ½ hour prior to any brandishing of weapons, gunfire, special effects, or aerial activity.
Must Maintain 5' Clearance on Sidewalks/Walkways
Must maintain local/emergency access
Must post "ROAD WORK AHEAD" signs, which must remain up until all activities on the roadway have been completed.
No cast or crew parking on area streets
No interference with merchant activity.
No steps from trailers, trucks or motorhomes may be facing road
No stopping or setting up in front of merchants or residents without prior approval
Number of uniformed officers listed on the permit is a minimum requirement. Permittee remains responsible for deploying a sufficient number of uniformed officers to provide traffic and crowd control to ensure the safety of the film crew and the public.
Traffic control must be done in accordance w/MUTCD
Traffic Officers Required
Uniformed officers shall have a copy of the film permit in their possession and are required to confirm that all traffic control signage devices are in place.

Please see attached documents 166292_FULL_200TH E_AVE G_AVE J_ Layout1 (1).pdf
20-FX323-114 - Haiku 87 - Jim Schwalm.pdf

Equipment on Location

Type	Quantity
10 Ton Truck	5
4000 gal water truck	1
Cast/Crew vehicles	150
Cube Trucks	5
Fire Extinguisher (2A10BC Minimum Rating)	5
Generator	4
Modular Units	2
Picture vehicles	3
Semi Trucks	2
Stakebed Trucks	2

Personnel on Location

Type	Quantity
Cast	10
Crew	100
Extras	10
LA County FSA assigned	1
Sheriff/CHP	2

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Summary Information — Location

Permit Number F00166292
Production Company BACK BREAKER FILMS, INC.
Insured Company BACK BREAKER FILMS, INC.
Production Title HAIKU #87

Location Manager Dan Williams
Primary Phone Mobile - 310-704-4779
Secondary Phone Office - 310-244-2969

Trailers	8
Vans	5

Filming Activities Brandishing weapons; Camera in car; Camera on sticks; Drive ups & away; Equipment on sidewalk, in curb lane & across street; Exterior Dialogue; Intermittent pedestrian control; Intermittent traffic control - 2 minutes standard; Wetdown; Crime scene; Camera, equipment and trucks staged on shoulder; Gunfire; Hero - shooting location is 50 yards South of Ave G;

Gunfire

Shot Type	Load Type	No. Takes Per Day	No. Times Per Take
Exterior Automatic	Full Load	15 - 20	15 - 20

Special Effects: F/X Permit # 20-FX323-114

Type	No. Times Per Day	No. Takes Per Take
Bullet hits on body	15 - 20	15 - 20
Bullet hits on things	15 - 20	15 - 20
Squibs	15 - 20	15 - 20

Jurisdiction **Political:** Los Angeles County - Supervisor District 5 **Police:** Los Angeles County Sheriff **Fire:** Los Angeles County Fire Department

Approvals

LOS ANGELES COUNTY PUBLIC WORKS - FINAL APPROVERS	Greg Graham Final Approver
LOS ANGELES COUNTY ROAD DEPARTMENT - PALMDALE (PO5)	Chris Melillo

Coordinator Note Person Responsible for Covid-19 Compliance: Christopher Stagner
Phone: 805-328-9675

Coordinator Note LA County Fire Permit #20-1935-114/117 FSA, 4000 gallon water truck, and (5) 2A10BC Fire Extinguishers required

Parking

Base Camp 40599 150th St E, Palmdale, CA, 93591
Location Type : Other Location

Crew Parking 40599 150th St E, Palmdale, CA, 93591
Location Type : Other Location

Parking Notes
Crew Parking / Base Camp for 12/13,14
40599 150th St E, Lancaster, CA 93535

Posting "No Parking" signs W/S OF 200TH ST E, AVE G 150' SOUTH & 300' NORTH
S/S OF E AVE G FROM 200TH, 300' GOING WEST

Approximate Footage County Parking **Log Number**

Date(s) 12/14/2020 to 12/14/2020 **Time(s)** 05:00 to 12:00

Lane / Full Closure FULL CLOSURE 200TH ST E FROM E AVE G TO AVE J.
Approximate Footage more than 1800

Date(s) 12/14/2020 to 12/14/2020 **Time(s)** 05:00 to 12:00

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Summary Information — Location

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Production Company BACK BREAKER FILMS, INC.
Insured Company BACK BREAKER FILMS, INC.
Production Title HAIKU #87

Location Manager Dan Williams
Primary Phone Mobile - 310-704-4779
Secondary Phone Office - 310-244-2969

Location Address 516 S Anderson St., Los Angeles, CA, 90033
Location Type Warehouse
Prep Dates 12/13/2020 - 12/14/2020 06:00 - 23:00 2 days
Film Dates 12/15/2020 - 12/15/2020 06:00 - 23:00 1 day
Strike Dates 12/16/2020 - 12/16/2020 06:00 - 23:00
Open or Closed to the Public Closed

Generic Conditions
*** MUST COMPLY WITH ATTACHED REOPENING PROTOCOL FOR MUSIC, TELEVISION AND FILM PRODUCTION: APPENDIX J EFFECTIVE AS OF FRIDAY, JUNE 12, 2020.***
THE CONSUMPTION OF ALCOHOLIC BEVERAGES AND THE USE OF DRUGS, INCLUDING MARIJUANA, ON LOCATION BY ANY CAST, CREW, OR INVITED GUESTS IS STRICTLY PROHIBITED.
*Certain service and personnel fees required by jurisdictional agencies are not collected by FilmL.A. Any such fees must be paid directly to the appropriate agency, and a separate invoice will be provided to the permittee.
*LAFD UFSO: Company must contact FilmL.A. for extension of the Uniformed Fire Safety Officers' hours. During normal business hours, UFSO must also inform the LAFD Film desk of the extension.
CROSSOVERS/CABLING ACROSS STREET I: Not allowed on street without prior approval.
Equipment staging and vehicles may park on one side of the street only.
Must comply with attached conditions
Must Maintain 5' Clearance on Sidewalks/Walkways
Must maintain local/emergency access
No cast or crew parking on area streets
No interference with merchant activity.
Notify LAPD Hollenbeck Division (323) 342-4100 and comm. (213) 978-6552 1/2 hour prior to any gunfire, brandishing weapons, special effects or simulated emergency or criminal activity.
Number of uniformed officers listed on the permit is a minimum requirement. Permittee remains responsible for deploying a sufficient number of uniformed officers to provide traffic and crowd control to ensure the safety of the film crew and the public.
Uniformed officers shall have a copy of the film permit in their possession and are required to confirm that all traffic control signage devices are in place.

Equipment on Location

Type	Quantity
10 Ton Truck	5
Bebee Light	1
Cast/Crew vehicles	100
Condors	3
Cube Trucks	5
Generator	2
Motor Homes	2
Picture vehicles	3
Semi Trucks	2
Stakebed Trucks	2

Personnel on Location

Type	Quantity
Cast	25
Crew	200
LA City UFSO assigned	1
Off-Duty/Retired LAPD Officer(s)	1

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Summary Information — Location

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Insured Company BACK BREAKER FILMS, INC.
Production Title HAIKU #87

Location Manager Dan Williams
Primary Phone Mobile - 310-704-4779
Secondary Phone Office - 310-244-2969

Trailers	8
Vans	5

Filming Activities Atmospheric smoke effects (water based); Brandishing weapons; Interior and exterior dialogue; Actors pass items to each other.; Picture car inside warehouse; lights and equipment in curb lane adjacent to warehouse.; Beebee light.; Music playback;

Jurisdiction **Political:** Los Angeles City - Council District 14 **Police:** Los Angeles Police **Fire:** Los Angeles City Department

Thomas Guide **Page:** 634 **Grid:** J5

Approvals

LOS ANGELES CITY POLICE DEPARTMENT	Richard Priest
LOS ANGELES CITY FIRE DEPARTMENT - FILM UNIT	Kanisha Leonard

Coordinator Note UFSO required 12/15 0600-2300 (17 hours)

Coordinator Note Person Responsible for Covid-19 Compliance: Christopher Stagner Phone: 805-328-9675

Parking

Base Camp	40599 150th St E, Lake Los Angeles, CA, 93535	**Crew Parking**	40599 150th St E, Lake Los Angeles, CA, 93535
Location Type : Other Location		Location Type : Other Location	

Posting "No Parking" signs E/S OF ANDERSON FROM 6TH NORTH 600' FOR TRUCKS

Approximate Footage 301 - 600 **Log Number** 293862

Date(s) 12/14/2020 to 12/16/2020 **Time(s)** 00:00 to 00:00

NO PERMIT

APPOINTMENT OF PACIFIC PRODUCTION SERVICES, INC. AS AUTHORIZED AGENT AND REPRESENTATIVE

I certify that I am a representative of Back Breaker Films LLC (Principal) and am authorized to enter into binding contractual agreements on Principal's behalf provided Principal has pre-approved such agreements. I further certify that I am authorized by Principal to appoint other representatives and agents for Principal and to give such representatives and agents authority to enter into and bind Principal to agreements relating to the issuance and compliance with location film (e.g. theatrical, television, commercial, and other motion picture filming) and still photographic permits, including the permits themselves and any riders to such permits. Acting on the behalf of Principal in my capacity as its authorized representative, I appoint **Pacific Production Services, Inc.** and its employees and agents as Principal's authorized representatives and agents to apply for and receive location film (e.g. theatrical, television, commercial, and other motion picture filming) and still photographic permits on behalf of Principal through FilmLA for any city, county or other jurisdiction that FilmLA contracts with, in accordance with Principal's instructions, to negotiate, discuss, accept, modify, agree to bind the Principal to the terms and conditions of such permits (including any restrictions and/or community guidelines applicable to any such permit) and to execute such permits on behalf of Principal. Principal understands, acknowledges and agrees that it (and/or it's insurer) remains responsible and liable for any and all obligations imposed by or incidental to any permit or rider issued to Principal signed by an employee or agent of (including any coordinator, runner or messenger used by) **Pacific Production Services, Inc.** Principal further agrees to comply with the terms and conditions of any such permits and hereby appoints **Pacific Production Services, Inc.** as an authorized representative to facilitate compliance with such terms and conditions following issuance of such permits and to enter into agreements for Principal with respect thereto. Any person, city, agency, entity or organization (including FilmLA and any city, county or other jurisdiction that FilmLA contracts with) may rely on this appointment and not need obtain any further authorization for any act described herein. An original or electronic copy of this appointment shall be sufficient and may be treated as an original for all purposes. The appointment may be revoked by Principal at any time in writing delivered to FilmLA, but in any case shall expire one (1) year from the date of execution set forth below.

I declare under penalty of perjury under the laws of the State of California that I am authorized to appoint **Pacific Production Service, Inc.** as an agent for Principal and based on that authority I hereby appoint **Pacific Production Services, Inc.** as Principal's agent as set forth herein.

DATED 12/11/20 **BY** Dan Will
REPRESENTATIVE'S SIGNATURE

Back Breaker Films LLC
NAME OF "PRINCIPAL" (PRODUCTION COMPANY)

10202 W Washington Blvd.
PRINCIPAL'S STREET ADDRESS

Dan Williams
PRINT PRINCIPAL REPRESENTATIVE NAME

Culver City, CA 90232
CITY, STATE, ZIP CODE

Location Manager
REPRESENTATIVE TITLE (I.E. UPM, LOC. MGR.)

310-244-2909
PRINCIPAL'S TELEPHONE NUMBER

SPECIAL CONDITIONS FOR LOCATION FILMING IN DOWNTOWN LOS ANGELES
(Standard Filming Requirements continue to apply where not superseded below)

1. DEFINITION OF TERMS

a. Downtown Los Angeles, for the purposes of these conditions, shall be defined as the area North to South from the 101 Freeway to the 10 Freeway; East to West from the Los Angeles River to the 110 Freeway.

b. The Downtown Los Angeles Neighborhood Council boundaries (**DLANC boundaries**), for the purpose of these conditions, shall be defined as bordered on the North and East at the 101 Freeway from the 110 Freeway east to Los Angeles Street, south to 4th Street, east to Alameda Street, south to 7th Street, east to the Los Angeles River; on the South by the 10 Freeway from the 110 Freeway to the Los Angeles River; on the West by 110 Freeway from the 10 Freeway to the 101 Freeway. (This area is the same area as defined above as Downtown Los Angeles, but excludes the Little Tokyo and Arts District neighborhoods.)

c. Residential buildings shall be defined as any building with legal residential occupants (mixed-use, adaptive reuse, artist-in-residence (A.I.R.), SROs, residential hotels, condominiums and apartment buildings). DLANC will maintain an accurate and contemporary listing of all residential buildings showing a 100-foot radius from each building so as to identify any areas both inside and outside of that radius.

d. The Broadway Entertainment District (aka Broadway Theatre District), for the purposes of these Conditions, shall be defined north to south as Broadway from 3rd Street to Olympic Boulevard, and east to west from Frank Court to Lindley Place (aka St. Vincent Alley Court), or the equivalent mid-block point to either of these alleys where the alley is not present, including any theater loading facilities, defined as any public or private surface parking lot, parking garage, public street or curb area adjacent to, or utilized by, a theater. If, in the future, the City adopts an ordinance with regulations governing filming in this area, such regulations shall supersede these Filming Conditions.

e. The Old Bank District residential overlay, for the purposes of these Conditions, shall be defined as the area bound by South Spring St., West 5th St., West 4th St., and Werdin Pl.

2. FILMING STANDARD HOURS AND DAYS

a. Filming activity, or any production-related activity including but not limited to activities such as base camps, catering, generators, etc., within the **DLANC boundaries** is restricted to the hours of 6:00 a.m. to 11:00 p.m. within a 100-foot radius of any residential building. Filming activity in the **Broadway Entertainment District** is restricted to the hours of 6:00 a.m. to Midnight within a 50-foot radius of any residential building. **Old Bank District** is restricted to the hours of 7:00 a.m. to 10:00 p.m. within a 100-foot radius of any residential building**.** No extension of the standard filming hours for

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filming or any disruptive production-related activity shall be allowed until a signature survey has been properly submitted. Proof of signature surveys shall be made available to DLANC upon request.

b. No film permits may be issued along Main and Spring Streets from 2nd to 9th Streets, or on any block of 2nd through 9th Streets between Los Angeles and Spring during the Downtown Art Walk, currently held on the second Thursday of each month. Filming inside of private buildings or entirely on private property during this time is permitted so long as there are no external impacts.

c. No filming may be conducted in close proximity to major public events anywhere in Downtown Los Angeles as permitted by the LAPD, or identified with 30 days notice to the City's Designated Film Permit Contractor by DLANC. Film permits may be considered in light of major public events on a case-by-case basis so long as their issuance will not cause further disruption to Downtown businesses and residents during such events.

3. RESIDENTIAL AND MERCHANT PROTECTIONS IN THE DLANC BOUNDARIES

a. A film permit may include no more than 300 feet of curb lane per city block for the parking of film production vehicles, crew or equipment. Requests for additional amounts of curb lane shall require a signature survey. The **Broadway Entertainment District** is exempt from this restriction.

b. Production personnel (and equipment utilized by the production company) shall not block the sidewalk area in front of an open commercial business or a residential building, including residential patios, windows, doorways, or entryways, unless the production company has secured the permission of the merchant and/or property owner. Where the commercial business is one that is primarily open in the evening and nighttime hours, the production company, their cast and crew may not block the access to and signage of such establishment (as seen from the street), without permission of the merchant and/or property owner during the hours of operation of the business.

c. Customers, employees, residents, and guests of affected properties shall be allowed free ingress/egress to all buildings, merchants, and parking facilities. Arrangements shall be made to ensure access to deliveries, trash pickup, residential move-in/move-out, and vendor access to the properties/merchants during productions.

d. All commercial businesses must prominently post hours of operation and contact phone numbers, and residential buildings must have a designated contact person authorized to give permission. Special events held by commercial businesses, outside of normal business hours, must also be posted in advance, and production companies must provide full access and visibility during such events.

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4. NOISE, FUMES, AND LIGHTING WITHIN THE DLANC BOUNDARIES

a. Generators, portable toilets or toilet vehicles, and outdoor food preparation using charcoal or gas grills must be a minimum of 50 feet (horizontally) from any residential window or entrance. If it is physically impossible for a generator to be a minimum of 50 feet from residential windows or entrances, the generator shall be placed as far away as possible and vented away from residential windows and entrances. However, under no circumstances shall a generator be placed directly underneath a residential window.

b. Film productions must focus lighting on the filming area only and make every effort to shield the lighting from adjacent properties, pedestrians, and patrons of commercial businesses at all times. Exceptional lighting (e.g., Musco and Bebee lighting) outside of regular filming hours shall not be allowed without a signature survey of the affected merchants and/or property owners. **Signature survey shall be required for Exceptional lighting within the Old Bank District between the hours of 6:00 p.m. and 6:00 a.m.** Under no circumstances shall lighting be directed onto oncoming traffic.

c. Film production companies are required to completely remove all trash, food, and cardboard boxes, etc. from the general vicinity at the end of each filming day. Film production companies will be held responsible for the actions of catering companies they employ to provide food for the cast and crew.

5. SPECIAL REQUESTS AND EXCEPTIONS REVIEW AND NOTIFICATION WITHIN THE DLANC BOUNDARIES

a. Helicopters shall not be granted permits for landing at non-certified helipads before and after approved filming hours. All aerial filming productions must provide upon request a copy of an approved FAA Form 7711-2, or other official waiver, along with a copy of the briefing on the flight operations for all participating persons or property.

b. No film permit shall be construed as a waiver of 14 CFR § 91.119, 14 CFR § 91.515(a) or 14 CFR § 91.303(e), dictating federal flight altitude regulations, for purposes of non-participating persons or property (see attachment).

c. Notification beyond the standard 500-foot radius will be made to affected residents and merchants for high impact activity that is likely to cause interference with adjacent properties of people such as car chases, simulated gun fire, explosions, screams for help and other loud noises, helicopter activity, road closures or other such exceptional activities that might cause a police response to the filming location. High impact filming activity must be preceded by notifications at least two days in advance. The City's Designated Film Permit Contractor or the production company shall consult a designated DLANC representative when an applicant requests a permit for high impact filming activity with less than two days notice.

d. Due to the location of building air intake systems on Lower Grand Avenue, no special effects, including smoke, steam or fog, may occur in that area without first obtaining

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clearance from the appropriate building contacts and maintenance engineers. Contact must be made at least 48 hours prior to the proposed effect(s).

6. FILMING-RELATED CONGESTION WITHIN THE DLANC BOUNDARIES

a. The City's Designated Film Permit Contractor will ensure that the impact from filming at recurrently used locations is minimized to the affected residents and businesses.

b. In rush hour restricted lanes, as designated by LADOT, no Intermittent Traffic Control (ITC) shall be permitted during Rush Hours (7:00 a.m. – 9:00 a.m. and 4:00 p.m. – 7:00 p.m., Monday through Friday). No simultaneous closures or ITC of both the Second and Third Street Tunnels will be permitted.

c. Production companies shall request the posting of "no parking" signs, lane or street closures with LADOT for the day(s) that they are "on site" only. When closures are not necessary for the day(s) requested, production companies shall report the changes to the City's Designated Film Permit Contractor, who shall notify LADOT, who must revise and/or remove parking signs, as necessary.

d. Production companies must provide adequate detour and directional signage when street closures are in place, conforming to current LADOT standards and practices. Detour routes must accommodate large, semi and tractor trailer trucks and public transit vehicles.

7. ENFORCEMENT OF CONDITIONS

a. In accordance with the terms of their work permit issued from LAPD, off-duty or retired police officers must, upon reporting to a work site, review and ensure compliance with conditions outlined on the filming permit. Officers shall ensure compliance with arrival and departure time, and shall not allow any activity or conduct that is in violation of local or state law, nor allow any filming condition that is not authorized by the permit. Variations from the requirements of the permit are not allowed unless approved by an authorized representative of the City's Designated Film Permit Contractor.

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SPECIAL CONDITIONS FOR LOCATION FILMING IN DOWNTOWN LOS ANGELES
(Standard Filming Requirements continue to apply where not superseded below)

1. DEFINITION OF TERMS

a. Downtown Los Angeles, for the purposes of these conditions, shall be defined as the area North to South from the 101 Freeway to the 10 Freeway; East to West from the Los Angeles River to the 110 Freeway.

b. The Downtown Los Angeles Neighborhood Council boundaries (**DLANC boundaries**), for the purpose of these conditions, shall be defined as bordered on the North and East at the 101 Freeway from the 110 Freeway east to Los Angeles Street, south to 4th Street, east to Alameda Street, south to 7th Street, east to the Los Angeles River; on the South by the 10 Freeway from the 110 Freeway to the Los Angeles River; on the West by 110 Freeway from the 10 Freeway to the 101 Freeway. (This area is the same area as defined above as Downtown Los Angeles, but excludes the Little Tokyo and Arts District neighborhoods.)

c. Residential buildings shall be defined as any building with legal residential occupants (mixed-use, adaptive reuse, artist-in-residence (A.I.R.), SROs, residential hotels, condominiums and apartment buildings). DLANC will maintain an accurate and contemporary listing of all residential buildings showing a 100-foot radius from each building so as to identify any areas both inside and outside of that radius.

d. The Broadway Entertainment District (aka Broadway Theatre District), for the purposes of these Conditions, shall be defined north to south as Broadway from 3rd Street to Olympic Boulevard, and east to west from Frank Court to Lindley Place (aka St. Vincent Alley Court), or the equivalent mid-block point to either of these alleys where the alley is not present, including any theater loading facilities, defined as any public or private surface parking lot, parking garage, public street or curb area adjacent to, or utilized by, a theater. If, in the future, the City adopts an ordinance with regulations governing filming in this area, such regulations shall supersede these Filming Conditions.

e. The Old Bank District residential overlay, for the purposes of these Conditions, shall be defined as the area bound by South Spring St., West 5th St., West 4th St., and Werdin Pl.

2. FILMING STANDARD HOURS AND DAYS

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b. No film permits may be issued along Main and Spring Streets from 2nd to 9th Streets, or on any block of 2nd through 9th Streets between Los Angeles and Spring during the Downtown Art Walk, currently held on the second Thursday of each month. Filming inside of private buildings or entirely on private property during this time is permitted so long as there are no external impacts.

c. No filming may be conducted in close proximity to major public events anywhere in Downtown Los Angeles as permitted by the LAPD, or identified with 30 days notice to the City's Designated Film Permit Contractor by DLANC. Film permits may be considered in light of major public events on a case-by-case basis so long as their issuance will not cause further disruption to Downtown businesses and residents during such events.

3. RESIDENTIAL AND MERCHANT PROTECTIONS IN THE DLANC BOUNDARIES

a. A film permit may include no more than 300 feet of curb lane per city block for the parking of film production vehicles, crew or equipment. Requests for additional amounts of curb lane shall require a signature survey. The **Broadway Entertainment District** is exempt from this restriction.

b. Production personnel (and equipment utilized by the production company) shall not block the sidewalk area in front of an open commercial business or a residential building, including residential patios, windows, doorways, or entryways, unless the production company has secured the permission of the merchant and/or property owner. Where the commercial business is one that is primarily open in the evening and nighttime hours, the production company, their cast and crew may not block the access to and signage of such establishment (as seen from the street), without permission of the merchant and/or property owner during the hours of operation of the business.

c. Customers, employees, residents, and guests of affected properties shall be allowed free ingress/egress to all buildings, merchants, and parking facilities. Arrangements shall be made to ensure access to deliveries, trash pickup, residential move-in/move-out, and vendor access to the properties/merchants during productions.

d. All commercial businesses must prominently post hours of operation and contact phone numbers, and residential buildings must have a designated contact person authorized to give permission. Special events held by commercial businesses, outside of normal business hours, must also be posted in advance, and production companies must provide full access and visibility during such events.

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a. Generators, portable toilets or toilet vehicles, and outdoor food preparation using charcoal or gas grills must be a minimum of 50 feet (horizontally) from any residential window or entrance. If it is physically impossible for a generator to be a minimum of 50 feet from residential windows or entrances, the generator shall be placed as far away as possible and vented away from residential windows and entrances. However, under no circumstances shall a generator be placed directly underneath a residential window.

b. Film productions must focus lighting on the filming area only and make every effort to shield the lighting from adjacent properties, pedestrians, and patrons of commercial businesses at all times. Exceptional lighting (e.g., Musco and Bebee lighting) outside of regular filming hours shall not be allowed without a signature survey of the affected merchants and/or property owners. **Signature survey shall be required for Exceptional lighting within the Old Bank District between the hours of 6:00 p.m. and 6:00 a.m.** Under no circumstances shall lighting be directed onto oncoming traffic.

c. Film production companies are required to completely remove all trash, food, and cardboard boxes, etc. from the general vicinity at the end of each filming day. Film production companies will be held responsible for the actions of catering companies they employ to provide food for the cast and crew.

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b. No film permit shall be construed as a waiver of 14 CFR § 91.119, 14 CFR § 91.515(a) or 14 CFR § 91.303(e), dictating federal flight altitude regulations, for purposes of non-participating persons or property (see attachment).

c. Notification beyond the standard 500-foot radius will be made to affected residents and merchants for high impact activity that is likely to cause interference with adjacent properties of people such as car chases, simulated gun fire, explosions, screams for help and other loud noises, helicopter activity, road closures or other such exceptional activities that might cause a police response to the filming location. High impact filming activity must be preceded by notifications at least two days in advance. The City's Designated Film Permit Contractor or the production company shall consult a designated DLANC representative when an applicant requests a permit for high impact filming activity with less than two days notice.

d. Due to the location of building air intake systems on Lower Grand Avenue, no special effects, including smoke, steam or fog, may occur in that area without first obtaining

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6. FILMING-RELATED CONGESTION WITHIN THE DLANC BOUNDARIES

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b. In rush hour restricted lanes, as designated by LADOT, no Intermittent Traffic Control (ITC) shall be permitted during Rush Hours (7:00 a.m. – 9:00 a.m. and 4:00 p.m. – 7:00 p.m., Monday through Friday). No simultaneous closures or ITC of both the Second and Third Street Tunnels will be permitted.

c. Production companies shall request the posting of "no parking" signs, lane or street closures with LADOT for the day(s) that they are "on site" only. When closures are not necessary for the day(s) requested, production companies shall report the changes to the City's Designated Film Permit Contractor, who shall notify LADOT, who must revise and/or remove parking signs, as necessary.

d. Production companies must provide adequate detour and directional signage when street closures are in place, conforming to current LADOT standards and practices. Detour routes must accommodate large, semi and tractor trailer trucks and public transit vehicles.

7. ENFORCEMENT OF CONDITIONS

a. In accordance with the terms of their work permit issued from LAPD, off-duty or retired police officers must, upon reporting to a work site, review and ensure compliance with conditions outlined on the filming permit. Officers shall ensure compliance with arrival and departure time, and shall not allow any activity or conduct that is in violation of local or state law, nor allow any filming condition that is not authorized by the permit. Variations from the requirements of the permit are not allowed unless approved by an authorized representative of the City's Designated Film Permit Contractor.

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1. DEFINITION OF TERMS

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b. The Downtown Los Angeles Neighborhood Council boundaries (**DLANC boundaries**), for the purpose of these conditions, shall be defined as bordered on the North and East at the 101 Freeway from the 110 Freeway east to Los Angeles Street, south to 4th Street, east to Alameda Street, south to 7th Street, east to the Los Angeles River; on the South by the 10 Freeway from the 110 Freeway to the Los Angeles River; on the West by 110 Freeway from the 10 Freeway to the 101 Freeway. (This area is the same area as defined above as Downtown Los Angeles, but excludes the Little Tokyo and Arts District neighborhoods.)

c. Residential buildings shall be defined as any building with legal residential occupants (mixed-use, adaptive reuse, artist-in-residence (A.I.R.), SROs, residential hotels, condominiums and apartment buildings). DLANC will maintain an accurate and contemporary listing of all residential buildings showing a 100-foot radius from each building so as to identify any areas both inside and outside of that radius.

d. The Broadway Entertainment District (aka Broadway Theatre District), for the purposes of these Conditions, shall be defined north to south as Broadway from 3rd Street to Olympic Boulevard, and east to west from Frank Court to Lindley Place (aka St. Vincent Alley Court), or the equivalent mid-block point to either of these alleys where the alley is not present, including any theater loading facilities, defined as any public or private surface parking lot, parking garage, public street or curb area adjacent to, or utilized by, a theater. If, in the future, the City adopts an ordinance with regulations governing filming in this area, such regulations shall supersede these Filming Conditions.

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F-315-U

LOS ANGELES FIRE DEPARTMENT

Permit #F00166292

Permit No: 30501

Date Issue 12/8/2020

SPECIAL PERMIT TO USE SPECIAL EFFECTS

State Lic No 1102.06

Name:	SCHWALM, JAMES	Address:	30481 Hasley Canyon Road			Phone:	(661) 644-3082
Company:		City:	Castaic			Mobile:	
Email:	jim.schwalm@gmail.com	State:	CA	Zip:	91384	Fax:	48187671293

2nd Operator: 1102.06 SCHWALM, JAMES

Production Title: HAIKU 87 Production Company: BACK BREAKER FILMS

Location: 122 WINSTON ST

PERMISSION IS HEREBY GRANTED TO SIMULATE:

ALLEY SCENE WITH HEAT WAVES AND CHARCOAL SMOKERS

USING THE FOLLOWING SPECIAL EFFECTS MATERIAL:

(2) 2-GALLON PROPANE TANK; WHITE BEE GUM

UNDER THE FOLLOWING CONDITIONS:

UNDER THE DIRECT SUPERVISION OF SCHWALM, JAMES, 1102.06 AND *SPOT CHECK FOR EFFECTS* FILMLA #166292 - FIRE EXTINGUISHERS AND GENERAL PRECAUTIONS AGAINST FIRE/INJURY.

ADDITIONAL TERMS AND CONDITIONS

992.6 HSC RESPONSIBILITY. The Company representative shall provide to the authority having jurisdiction the name and license number of the special effects operator who shall have the authority, responsibility and be in charge of handling all Special Effects Material. The company representative shall also allocate sufficient time to the Special Effects Pyrotechnic Operator to prepare for the transportation, parking, storing, securing daily, discharging, disposing of, or otherwise handling of fireworks, pyrotechnic devices, or materials in a sane manner. Upon completion of firing, no unauthorized person shall be permitted access to the firing area until the licensed pyrotechnic operator has determined the area to be safe and secure.

NOTICE: The permittee and production company shall be advised that this permit in no way removes or modifies their responsibility to comply with any other applicable laws or ordinances, including those relating to excessive noise.

57.105.8 THE CHIEF SHALL HAVE THE POWER TO REVOKE OR SUSPEND ANY SPECIAL PERMIT UPON VIOLATION OF THE TERMS AND CONDITIONS IN ACCORDANCE WITH PROVISIONS OF SECTION 57.105.5 OF THE LOS ANGELES MUNICIPAL CODE.

SUBJECT TO FIELD INSPECTION NO DEVIATION WITHOUT WRITTEN PERMISSION

TEMPORARY FROM

12/15/2020 TO **12/15/2020**

Fire Chief
By: MOREL
Phone: 213 978-3670

lafd:rev 2/2017

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c. Customers, employees, residents, and guests of affected properties shall be allowed free ingress/egress to all buildings, merchants, and parking facilities. Arrangements shall be made to ensure access to deliveries, trash pickup, residential move-in/move-out, and vendor access to the properties/merchants during productions.

d. All commercial businesses must prominently post hours of operation and contact phone numbers, and residential buildings must have a designated contact person authorized to give permission. Special events held by commercial businesses, outside of normal business hours, must also be posted in advance, and production companies must provide full access and visibility during such events.

NOT A PERMIT

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b. Film productions must focus lighting on the filming area only and make every effort to shield the lighting from adjacent properties, pedestrians, and patrons of commercial businesses at all times. Exceptional lighting (e.g., Musco and Bebee lighting) outside of regular filming hours shall not be allowed without a signature survey of the affected merchants and/or property owners. **Signature survey shall be required for Exceptional lighting within the Old Bank District between the hours of 6:00 p.m. and 6:00 a.m.** Under no circumstances shall lighting be directed onto oncoming traffic.

c. Film production companies are required to completely remove all trash, food, and cardboard boxes, etc. from the general vicinity at the end of each filming day. Film production companies will be held responsible for the actions of catering companies they employ to provide food for the cast and crew.

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b. No film permit shall be construed as a waiver of 14 CFR § 91.119, 14 CFR § 91.515(a) or 14 CFR § 91.303(e), dictating federal flight altitude regulations, for purposes of non-participating persons or property (see attachment).

c. Notification beyond the standard 500-foot radius will be made to affected residents and merchants for high impact activity that is likely to cause interference with adjacent properties of people such as car chases, simulated gun fire, explosions, screams for help and other loud noises, helicopter activity, road closures or other such exceptional activities that might cause a police response to the filming location. High impact filming activity must be preceded by notifications at least two days in advance. The City's Designated Film Permit Contractor or the production company shall consult a designated DLANC representative when an applicant requests a permit for high impact filming activity with less than two days notice.

d. Due to the location of building air intake systems on Lower Grand Avenue, no special effects, including smoke, steam or fog, may occur in that area without first obtaining

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clearance from the appropriate building contacts and maintenance engineers. Contact must be made at least 48 hours prior to the proposed effect(s).

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b. In rush hour restricted lanes, as designated by LADOT, no Intermittent Traffic Control (ITC) shall be permitted during Rush Hours (7:00 a.m. – 9:00 a.m. and 4:00 p.m. – 7:00 p.m., Monday through Friday). No simultaneous closures or ITC of both the Second and Third Street Tunnels will be permitted.

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7. ENFORCEMENT OF CONDITIONS

a. In accordance with the terms of their work permit issued from LAPD, off-duty or retired police officers must, upon reporting to a work site, review and ensure compliance with conditions outlined on the filming permit. Officers shall ensure compliance with arrival and departure time, and shall not allow any activity or conduct that is in violation of local or state law, nor allow any filming condition that is not authorized by the permit. Variations from the requirements of the permit are not allowed unless approved by an authorized representative of the City's Designated Film Permit Contractor.

NOT A PERMIT

SPECIAL CONDITIONS FOR LOCATION FILMING IN DOWNTOWN LOS ANGELES
(Standard Filming Requirements continue to apply where not superseded below)

1. DEFINITION OF TERMS

a. Downtown Los Angeles, for the purposes of these conditions, shall be defined as the area North to South from the 101 Freeway to the 10 Freeway; East to West from the Los Angeles River to the 110 Freeway.

b. The Downtown Los Angeles Neighborhood Council boundaries (**DLANC boundaries**), for the purpose of these conditions, shall be defined as bordered on the North and East at the 101 Freeway from the 110 Freeway east to Los Angeles Street, south to 4th Street, east to Alameda Street, south to 7th Street, east to the Los Angeles River; on the South by the 10 Freeway from the 110 Freeway to the Los Angeles River; on the West by 110 Freeway from the 10 Freeway to the 101 Freeway. (This area is the same area as defined above as Downtown Los Angeles, but excludes the Little Tokyo and Arts District neighborhoods.)

c. Residential buildings shall be defined as any building with legal residential occupants (mixed-use, adaptive reuse, artist-in-residence (A.I.R.), SROs, residential hotels, condominiums and apartment buildings). DLANC will maintain an accurate and contemporary listing of all residential buildings showing a 100-foot radius from each building so as to identify any areas both inside and outside of that radius.

d. The Broadway Entertainment District (aka Broadway Theatre District), for the purposes of these Conditions, shall be defined north to south as Broadway from 3rd Street to Olympic Boulevard, and east to west from Frank Court to Lindley Place (aka St. Vincent Alley Court), or the equivalent mid-block point to either of these alleys where the alley is not present, including any theater loading facilities, defined as any public or private surface parking lot, parking garage, public street or curb area adjacent to, or utilized by, a theater. If, in the future, the City adopts an ordinance with regulations governing filming in this area, such regulations shall supersede these Filming Conditions.

e. The Old Bank District residential overlay, for the purposes of these Conditions, shall be defined as the area bound by South Spring St., West 5th St., West 4th St., and Werdin Pl.

2. FILMING STANDARD HOURS AND DAYS

a. Filming activity, or any production-related activity including but not limited to activities such as base camps, catering, generators, etc., within the **DLANC boundaries** is restricted to the hours of 6:00 a.m. to 11:00 p.m. within a 100-foot radius of any residential building. Filming activity in the **Broadway Entertainment District** is restricted to the hours of 6:00 a.m. to Midnight within a 50-foot radius of any residential building. **Old Bank District** is restricted to the hours of 7:00 a.m. to 10:00 p.m. within a 100-foot radius of any residential building**.** No extension of the standard filming hours for

NOT A PERMIT

filming or any disruptive production-related activity shall be allowed until a signature survey has been properly submitted. Proof of signature surveys shall be made available to DLANC upon request.

b. No film permits may be issued along Main and Spring Streets from 2nd to 9th Streets, or on any block of 2nd through 9th Streets between Los Angeles and Spring during the Downtown Art Walk, currently held on the second Thursday of each month. Filming inside of private buildings or entirely on private property during this time is permitted so long as there are no external impacts.

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33638 Agua Dulce Canyon, Agua Dulce
"Agua Dulce Airport"
APN: 3213021017, 3213031002, 3213022026
EF# 081987 – Closed – No current zoning violations.
SP 1404 (Special Permit) – Expires 11/14/2026-36.

Approval subject to the following conditions:

- **ALERT 5TH DISTRICT FIRST**

- No filming activities shall occur on the subject property without the prior issuance of a valid film permit for which issuance of such a film permit is required from Film L.A, Inc., or other County-designated responsible entity. The permittee shall provide a copy of this grant to Film L.A., Inc., and ensure that it is aware of its conditions.

- Filming, as described in Condition No. 36, conducted outdoors on the grounds of the subject property after 10:00 p.m. and before 6:00 a.m. is strictly prohibited. Filming shall be permitted within the confines of an enclosed hangar(s) from 6:00 a.m. to 11:30 p.m., with the premises vacated by 12:00 midnight.

- The airport shall not be used by aircraft intending to conduct or have conducted acrobatics, parachute jumping, or any other form of careless or reckless flying at the airport.

- All lighting facilities utilized by filming crews during outdoor night filming shall be shielded from neighboring residences.

- Filming on the subject property shall not occur more than 90 days per calendar year, or in connection with more than 90 film permits per calendar year, whichever is less. For the purposes of this grant, "filming" means the actual days during which filming occurs on the property as identified in a valid Film LA, Inc.-issued film permit, per Condition No. 33, and does not include days spent by film crews during film production assembly (prep days) and disassembly (strike days). The permittee shall keep a film log indicating all days on which filming occurs on the subject property and note the number of film permits issued in relation to the subject property. Said film log shall be made available upon request for inspection by the Department's staff.

- The permittee shall provide a minimum 24-hour advanced email notice regarding all filming conducted at the subject property to all adjoining residents of the Airport and all local residents who request such notification in writing. The filming notice shall be posted on a website to be maintained by the permittee not less than 24 hours prior to the scheduled filming. The permittee shall provide a copy of the notification list to the management of Film LA, In., the Fifth Supervisorial District main office, the Department for inclusion in the case file, and the Agua Dulce Town Council.

NOT A PERMIT

Permit #F00166292

FilmL.A. Inc. UAS QUESTIONNAIRE

(FOR MORE THAN 2 LOCATIONS, PLEASE USE AN ADDITIONAL FORM)

FilmL.A. Permit #:

Film Date: December 13, 2020

Production Title: Haiku #87

Production Company: Back Breaker Films, Inc.

Hours of UAS Activity: 5am - 8pm

Location Address: Near 42657 150th E, Lancaster, CA 93535

Hours of UAS Activity:

Location Address #2:

UAS Company Name: Astraeus Aerial, LLC

UAS ON LOCATION INFORMATION

UAS Make & Model: Astraeus X8 - Primary

UAS "N" # or registration #: FA3MXFKETF

UAS Make & Model: Freefly Alta 8 - backup

UAS "N" # or registration #: FA3LC9AKFA (A) & FA3R9A4FAX (B)

Class of Airspace that activity will occur in: ☐ B ☐ C ☐ D ☐ E ■ G

REMINDER: IF YOU ARE FLYING IN CLASS B, C, D, OR E AIRSPACE, ATC AUTHORIZATION IS REQUIRED FOR ALL UAS ACTIVITY.

UAS PILOT WILL BE OPERATING UNDER: ☐ 333 EXEMPTION ■ PART 107

333 EXEMPTION REQUIREMENTS

Name of Pilot in Command:

Pilot's Phone #:

Name of Visual Observer:

Visual Observer's Phone #:

PLEASE PROVIDE THE FOLLOWING:

- Copy of COA or Blanket COA
- Copy of POA with proof of submission to local FSDO
- Copy of Pilot's License

PART 107 REQUIREMENTS

Name of Remote Pilot: Corey Gineris

Certificate #: 3927618

Remote Pilot Phone #: 562-686-3839

Visual Observer: ■ YES ☐ NO

PLEASE PROVIDE THE FOLLOWING:

- Copy of Remote Pilot's Certificate
- Copy of UAS Registration Certificate for each UAS listed above
- Description of Planned Operations

WAIVERS

If you are requesting any of the following activity, please check all that apply and furnish proof of waiver from the FAA upon submission of this document to FilmL.A.

☐ Flight over non-participants (§107.39)

☐ Flight altitude restrictions (§107.51)

■ Night Flight (§107.29)

☐ Operating from a moving vehicle (§107.25)

☐ Operating multiple small UAS' (§107.35)

FILMLA. USE ONLY

333 EXEMPTION

☐ INSURANCE
☐ PILOT'S LICENSE
☐ COA
☐ POA
☐ 315 TO LAFD
☐ VISUAL OBSERVER

PART 107 CERTIFICATE

☐ INSURANCE
☐ WAIVERS
☐ 315 TO LAFD
☐ DESCRIPTION OF OPS.
☐ REMOTE PILOT CERTIFICATE
☐ ATC COORDINATOR NOTE
☐ UAS REGISTRATION CERTIFICATE(S)

NOT A PERMIT

U.S. Department
of Transportation
**Federal Aviation
Administration**

Aviation Safety

800 Independence Ave
Washington, DC 20591

In the matter of the petition of

ASTRAEUS AERIAL

For an exemption from §§ 61.113(a) and (b); 91.119(c); 91.121; 91.151(a); 91.405(a); 91.407(a)(1); 91.409(a)(1) and (2); and 91.417(a) and (b) of Title 14, Code of Federal Regulations

Exemption No18006
Regulatory Docket No. FAA-2017-0420

GRANT OF EXEMPTION

By letter dated February 9, 2016, Mr. Daniel Tartre, Astraeus Aerial (Astraeus), 2708 Wilshire Blvd., Ste. 383r, Santa Monica, CA 90403 petitioned the Federal Aviation Administration (FAA) on behalf of Astraeus for an exemption from §§ 61.113(a) and (b); 91.119(c); 91.121; 91.151(a); 91.405(a); 91.407(a)(1); 91.409(a)(1) and (2); and 91.417(a) and (b) of Title 14, Code of Federal Regulations (14 CFR). On January 11, 2017, Astraeus requested an increase in gross weight from 55 to 80 pounds (lbs), night operations, and a maximum speed of 40 knots (kts). By email on July 24, 2017, Astraeus limited their gross weight request to 75 lbs (Record of Conversation Astraeus 7-24-2017, FAA-2017-0420-0013). By telephone conversation on September 25, 2017, (Record of Conversation Astraeus 9-25-17, FAA-2017-0420-0011) Astraeus rescinded its request to operate over people. The proposed exemption, if granted, would allow Astraeus to conduct unmanned aircraft system (UAS) commercial operations during day or night with up to 75 lbs (the Astraeus Aerial V.4CS, currently flown up to 55 lbs under Part 107) in either a single-pilot configuration or two-pilot operation for extended visual line of sight. (The V.4CS is the same vehicle as the V.3CS also mentioned in the petitioner's documents. The difference between the two is the payload; the V.4CS carries a heavier camera than the V.3CS.)

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The petitioner supports its request with the following information:

The petition for exemption describing the proposed operation and the regulations from which the petitioner seeks exemption is posted to the docket. To view the petition, visit http://www.regulations.gov, enter the regulatory docket number found on the first page of this document into the search box and click "Search," then click on the "Open Docket Folder" link next to a result associated with the docket number.

The petitioner has provided the following information as appendices to its petition in support of its request for an exemption:

- Astraeus Aerial V.4CS UAS Flight Operations and Procedures Manual
- Astraeus Aerial Motion Picture and Television Operations Manual
- N779AA Aircraft Log, 2015-2016
- N992AA Aircraft Log, 2014-2016
- N993AA Aircraft Log, 2015-2016
- N994AA Aircraft Log, 2015-2016
- N995AA Aircraft Log, 2015-2016
- Risk Mitigation Procedures & Night Vision Training Course

The petition and the documents above are hereinafter referred to as the operating documents.

Discussion of Public Comments:

A summary of the petition was published in the Federal Register on November 28, 2016 (81 FR 85671). Two comments were received, one from the Air Line Pilots Association, International (ALPA) and one from Gregory S. Walden, Akin Gump Strauss Hauer & Feld LLP, counsel to the Small UAV Coalition. The Small UAS UAV Coalition provided comments in support of the petitioner, and the Airline Pilots Association (ALPA) provided comments in opposition.

ALPA expressed concern regarding several aspects of the petition. It began with a statement that there was "no validation of the 'first person viewing' technology as a safe means to control the UAS." The section below entitled Two Pilot Operations addresses these concerns. ALPA notes the petitioner does not state where operations will be conducted, nor does the petitioner detail procedures for controlling the airspace or area of operation. Specifically, ALPA states "there must be means both to ensure that the UAS remains within the defined airspace and that the hazard of other aircraft intruding on the operation is mitigated." The FAA concludes the limitations under which the petitioner will operate (i.e., visual line of sight (VLOS) and at or below 400 feet above ground level (AGL)) are sufficient mitigations to this risk so that the operations will not adversely affect safety. ALPA states that the pilot and observer should be able to maintain a visual observation of the aircraft and area of operation when using voice communication. The

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FAA has inserted a condition regarding pilot in command (PIC) and visual observer communications.

ALPA asserts the UAS's lithium polymer batteries have numerous associated fire and explosion hazards as outlined in DOT/FAA/AR-09/55, "Flammability Assessment of Lithium-Ion and Lithium-Ion Polymer Battery Cell Designed for Aircraft Power Usage (January 2010)," and that the safe carriage of the batteries and the mitigations in place for known risks should be addressed. The referenced study was primarily conducted to determine how certain battery cells react in a fire situation aboard manned airplanes. Given the size of the battery and the operating conditions of the UAS, the FAA concludes that the use of a lithium polymer battery will not pose an undue safety risk for the proposed operations.

ALPA comments that command and control (C2) link failures are among the most common failures on a UAS, and that lost link mitigations should require safe modes to prevent fly-aways or other scenarios. The FAA agrees and carefully examined the proposed operation to ensure that the vehicle design and the petitioner's operating documents addressed potential hazards related to C2 failure. The FAA finds that the UAS to be operated by the petitioner has sufficient design features to address these hazards. The FAA also finds that the operating documents have incorporated safety procedures to be followed by all operational participants should a C2 failure occur. Further detail is contained in the analysis of the UAS below.

ALPA also notes that the petitioner's proposed operations are for "compensation or hire," and argues the pilot must hold at least a current FAA commercial pilot certificate with an appropriate category and class rating for the type of aircraft being flown, as well as specific and adequate training on the UAS make and model intended to be used. Similarly, ALPA asserts a current second-class airman medical certificate should be required. The FAA has reviewed the knowledge and training required by holders of both private and commercial certificates. Additional details are available in the ensuing analysis of this issue with regard to 14 CFR § 61.113.

ALPA stated that although the petitioner asked for an exemption from § 91.109, *Flight Instruction*, it failed to provide any information regarding the qualifications of the persons providing instruction per § 61.195 which defines the requirements for flight instructors. A certificated flight instructor is authorized to provide the instruction required for the certificates or ratings or currency listed in § 61.193. A person instructing on how to operate the UAS under the petitioner's training program would not need to be a certificated flight instructor because the instruction is not being provided for a certificate or rating listed in § 61.193. We note that none of the UAS operations proposed by the petitioner require such flight instruction because § 61.31 allows for operation of the UAS by an airman who is current per § 61.56 without a category and class rating. Of course, any instruction provided toward obtaining the pilot certificate required by this exemption would need to be provided by a certificated flight instructor.

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ALPA comments on the petitioner's request for exemption from § 91.119, stating it believes that all aircraft in the National Airspace System (NAS) must operate to the same high level of safety, including maintaining safe altitude for both airplanes and helicopters. The FAA concurs and in its review of the petitioner's request for relief confirmed that only the PIC, visual observers, and other persons involved in the Astraeus operations who have been briefed and provided consent, will be within 500 feet of the aircraft. Astraeus will not operate within 500 feet of nonparticipants unless there is a barrier or structure protecting such nonparticipants from the risk of an errant UAS, in accordance with the requirement in the Astraeus UAV Flight Operations Manual. Therefore, the FAA finds that granting the requested relief from
§ 91.119(c), provided the conditions and limitations outlined below, would provide an equivalent level of safety.

ALPA opposes the use of exemptions from the aircraft airworthiness process and § 91.203. The FAA has previously determined that relief from these sections is not necessary. See Exemption No. 11213.

With respect to § 91.7, ALPA observes that UAS must be in airworthy condition. While the petitioner's UAS will not require an airworthiness certificate, the FAA has determined that for the purposes of this exemption the pilot may determine the aircraft is in an airworthy condition prior to flight. The FAA's regulations state that the PIC of a civil aircraft is responsible for determining whether the aircraft is in a condition for safe flight. ALPA opposes an exemption from the pre-flight action requirements of § 91.103. In addition, although the petitioner did not request an exemption from § 91.113, ALPA notes the petitioner must specify a means to meet the see-and-avoid requirements in § 91.113 given the absence of an onboard pilot. This comment is addressed in detail in the FAA analysis below.

ALPA mentioned the aircraft will not have a barometric altimeter as required by § 91.121, stating the ability to accurately maintain altitude must be addressed, and processes or mitigations, such as redundant control capability, fail-safe systems, backups and specific, validated procedures for system and equipment failures must be in place. The FAA agrees with ALPA and addresses this concern in its analysis of the exemption from § 91.121, finding that the alternative means of compliance proposed by the petitioner does not adversely affect safety.

Regarding the fuel requirements of § 91.151, ALPA argues that using batteries as the only source of an aircraft's power is a substantial shift from traditional methods of propulsion, and requires further research to determine best safety practices. This comment is addressed in Item 22 of the Conditions and Limitations.

Regarding §§ 91.405(a), 91.407(a)(1), 91.409(a)(2), and 91.417(a) and (b), ALPA opposes the petitioner's request for exemption from established aircraft maintenance and recordkeeping requirements. ALPA states the UAS should comply with the same level of

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safety as other aircraft operated commercially in the NAS. This comment is addressed in detail below.

ALPA also expresses concern that the petitioner's request is not for a single specific operation or location, but for all operations of the same general type. ALPA states this results in a considerable increase in the FAA's oversight tasks. The FAA notes ALPA's concern and in order to minimize potential impact to the NAS, the FAA requires that each operator secure a Certificate of Waiver or Authorization (COA), which covers specific details of the petitioners operation. The FAA recognizes that UAS integration will generate new NAS access demand and will review and adjust accordingly. The FAA recognizes these concerns and has incorporated associated conditions and limitations into this exemption, including: (a) a Notice to Airmen (NOTAM) issued for all operations; (b) operations conducted within visual line of sight (VLOS) of the pilot in command (PIC) and the visual observer (VO); and (*c*) the UAS PIC must always yield right-of-way to manned aircraft.

The FAA's analysis is as follows:

The FAA has organized its analysis into four sections: (1) Unmanned Aircraft Systems (UAS), (2) the UAS pilot in command (PIC), (3) the UAS operating parameters, and (4) the public interest.

Unmanned Aircraft Systems (UAS)

This grant of exemption allows Astraeus Aerial to operate the UAS authorized under Exemption No. 11062 (September 25, 2014) at weights up to 75 lbs including payload.

In accordance with the statutory criteria provided in Section 333 of Pub. L. 112-95 in reference to 49 U.S.C. 44704, and in consideration of the size, weight, speed, and limited operating area associated with the aircraft and their operation, the Secretary of Transportation has determined that these aircraft meet the conditions of Section 333 and that an airworthiness certificate is not required. Therefore, the FAA finds that relief from 14 CFR part 21 and any associated noise certification and testing requirements of part 36 is not necessary.

The FAA has added a condition to this exemption stating that, consistent with existing law, the operator will need to obtain a Foreign Aircraft Permit pursuant to § 375.41 if it will be using foreign civil aircraft[1] in its operations.

The petitioner requested relief from the following sections: § 91.405(a) *Maintenance required,* § 91.407(a)(1) *Operation after maintenance, preventive maintenance, rebuilding,*

[1] *Foreign civil aircraft* means (a) an aircraft of foreign registry that is not part of the armed forces of a foreign nation, or (b) a U.S.-registered aircraft owned, controlled or operated by persons who are not citizens or permanent residents of the United States. 14 CFR § 375.1.

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or alteration, §§ 91.409(a)(1) and (2) *Inspections*, and 91.417(a) and (b) *Maintenance records*. Prior UAS-specific relief has been granted in Grant of Exemption No. 13465A, Kansas State University. Therefore, the FAA finds that exemption from 14 CFR §§ 91.405(a), 91.407(a)(1), 91.409(a)(1) and (2), and 91.417(a) and (b) is warranted subject to the conditions and limitations below.

UAS Pilot in Command (PIC)

In its petition for amendment, the petitioner stated it will use two FAA-certificated pilots in its proposed operations. The petitioner described the proposed operation as a two-pilot system consisting of a Line of Sight Pilot (LP) and Augmented Pilot (AP). The FAA considers the LP, as proposed by the petitioner, to be the pilot in command (PIC). Additionally, the FAA considers the AP to be a "Secondary Pilot." The PIC is ultimately responsible for the safe outcome of the flight as described below.

Two-Pilot Operations

The petitioner proposes to conduct operations using two pilots, a PIC and a secondary pilot. The PIC conducts takeoffs and landings and has ultimate authority and responsibility for the safe outcome of the flight. The secondary pilot controls the aircraft while filming in order to gain better approach angles and camera views on closed sets. The petitioner states that operating the aircraft using a video array allows the operator to more accurately control the aircraft in environments such as filming sets, which have significant visual distractors for a PIC in VLOS of the UAS. The petitioner's system consists of dual controllers, data links, flight computers, transmitters and receivers. The PIC's controller is equipped with the capability to override the Secondary Pilot's controller at any point during the operation to ensure safe and positive control of the aircraft. The secondary pilot's controller does not have override capability over the PIC's controller. The petitioner also proposes the use of full duplex voice communication between the PIC and secondary pilot during flight operations.

The FAA finds that the UAS operations proposed by the petitioner are similar to those proposed by Kansas State University in Exemption No. 13465A. In the operation permitted by Exemption No. 13465A, the FAA found that the PIC must have override capability over the student controlling the UAS because of the safety risks associated with inexperienced students learning how to operate a UAS. It was assumed that the student would not be able to meet the see-and-avoid requirement necessary when learning how to operate a UAS within VLOS. Similarly, in Astraeus's proposed operation, the secondary pilot using the first person view system will not be able to meet the see-and-avoid requirement necessary for operating UAS within VLOS. Therefore, as in Exemption No. 13465A, the PIC maintaining VLOS must have override capability. If at any point the PIC sees an unsafe maneuver or situation, the PIC will engage the override function and assume control of the UAS over the Secondary Pilot. Accordingly, the FAA finds that the two-pilot operation, as described by the petitioner, and augmented by a VO, does not

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adversely affect safety. All operations must be conducted in accordance with the conditions and limitations in this exemption.

Night Operations

With the other risk mitigations established in this exemption for night operations, the FAA finds sufficient reason to grant relief from 14 CFR § 91.209(a)(1). Although UAS lighting systems are not designed to any certification standard, the lighting systems must provide adequate illumination for the PIC and VO to maintain VLOS capability and a means for collision mitigation. § 103.11(b) allows ultralight vehicles to be operated during civil twilight, provided the vehicle is equipped with an operating anti-collision light visible for at least 3 statute miles. The FAA finds that a similar requirement for UAS will ensure no adverse impact to the NAS, and will ensure that the UAS is visible during night operations. The FAA finds that the petitioner's use of anti-collision lights that are visible from 3 miles is adequate for the PIC and VO to maintain VLOS capability and as an additional means for collision mitigation. Therefore, relief from § 91.209(b) for operation of the aircraft without lighted anti-collision lights under this exemption is not granted and the UAS must be equipped with and use lighted anti-collision lighting visible for at least 3 miles in accordance with the conditions and limitations below.

Night flying is very different from day flying because human vision at night is not as receptive as it is during the day. Therefore, the FAA has developed processes and procedures to ensure the safety of aircraft operations conducted at night. Pilots operating at night must be trained and tested to ensure they have the basic knowledge required to operate safely at night.

In Exemption No. 16341, Industrial Skyworks, the FAA compared the training and testing requirements of the commercial and private certificates to the recreational and sport pilot certificates to determine how they differed on operations between sunset and sunrise for holders of a recreational pilot certificate or night operations for holders of a sport pilot certificate. The FAA determined that there are additional training and testing requirements at the private pilot level that are not required for holders of a recreational pilot certificate or a sport pilot certificate. For example, training for private pilots includes principles of night vision and night visual illusions, which provides training on human night vision limitations and how to adapt to them and potential confusion and concerns of night illusions. Additionally, private pilots are trained to understand airplane and airport equipment and lighting, which are necessary for basic operation at night. Holders of a sport pilot certificate do not receive this training and therefore are not permitted to operate aircraft at night.

Though the FAA does not approve UAS training programs such as the *Astraeus Aerial Night Vision Training Course* or its criteria, it does recognize that the training mitigates the risks of night operations because it requires the PIC to accumulate nighttime operating skills, knowledge, and experience of unmanned aircraft prior to conducting commercial operations.

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Therefore, for night operations, the FAA requires the PIC to hold an airline transport, commercial, or private pilot certificate that allows night operations. The FAA grants relief from § 61.113(a) and (b) to allow a PIC holding a private pilot certificate to operate a UAS for compensation and hire subject to the conditions and limitations below. Additionally for night operations, the PIC must hold a medical certificate issued under 14 CFR part 67. The PIC must also comply with § 61.53, *Prohibition on operations during medical deficiency*.

Furthermore, the FAA medical certification process has tests to determine the ability to perceive colors necessary for the safe performance of airman duties. For example, red, green, and white colors are used to indicate the direction and position of flight of manned aircraft. Under this exemption, the PIC operating at night must be able to discern colors to determine the motion of lighted manned aircraft and interpret the relative position of manned aircraft and their direction and motion. This ability to perceive certain colors and have the training to understand the meaning of these colors is necessary for night operations of UAS.

The FAA also considered medical certificate requirements for a visual observer. As in Exemption No. 11213, the FAA determined that this is not necessary subject to the conditions and limitations below. In particular, the UA must never be operated beyond the actual visual capabilities of the VO, and the VO, any student manipulating the controls, and the PIC must have the ability to maintain VLOS with the UA at all times. It is the responsibility of the PIC to be aware of the VO's visual limitations and limit operations of the UA to distances within the visual capabilities of both the PIC and VO.

UAS Operating Parameters

In previous exemptions, the FAA required that the UA be returned to a predetermined location within the private or controlled area of operation if the UAS loses communication or GPS signal. The FAA has re-evaluated its analysis of situations in which GPS signal is lost or the PIC loses communications with the unmanned aircraft (UA), and has determined that these two situations employ unique functions and incur different failure modes. Therefore, the FAA has included two separate conditions and limitations addressing each situation. If the UA loses the GPS signal necessary to operate safely, the PIC is required to recover or land the UA immediately. By contrast, if the PIC loses command or control link with the UA, the UA must follow a predetermined route to either reestablish link or immediately land. The modified conditions and limitations preserve the same intent and level of safety, while also adding clarity and reducing restrictiveness for the operator.

The petitioner has requested relief from § 91.151, *Fuel requirements*, for flight in visual flight rules (VFR) conditions, for the electric-powered UAS. Prior UAS-specific relief has been granted in Exemption Nos. 8811, 10808, and 10673 for daytime VFR conditions. The FAA has determined that similar reasoning applies to night VFR conditions, because the aircraft is being operated within VLOS in a predetermined area that has been surveyed

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during the day. The conditions and limitations below prohibit the PIC from beginning a UAS flight unless (considering observed and forecast weather conditions) there is enough available power for UAS to operate for the intended operational time with either (a) sufficient reserve power such that, in the event of an unplanned emergency, the PIC can land the aircraft in a known area without posing an undue risk to aircraft or people and property on the ground, or (b) the reserve power recommended by the manufacturer, whichever is greater. These requirements are a substitute for paragraphs (a)(1) and (2) of § 91.151, which require sufficient fuel to continue operating for a specific period. The FAA finds that compliance with the conditions and limitations will ensure operations permitted by this exemption will achieve the necessary level of safety that compliance with 14 CFR § 91.151 provides, and relief from § 91.151 is therefore granted.

In previous exemptions, the FAA limited UAS operations to outside 5 nautical miles of an airport reference point (ARP) as denoted in the current FAA Airport/Facility Directory or, for airports not denoted with an ARP, the center of the airport symbol as denoted on the current FAA-published aeronautical chart unless a letter of agreement (LOA) with that airport's management is obtained or otherwise permitted by a certificate of waiver or authorization (COA) issued to the exemption holder. In order to maintain operational safety near airports, particularly as it affects Class B, C, or D airspace, instead of contacting the airport management, the petitioner must apply to the Air Traffic Organization (ATO) for a new or amended COA. The ATO will coordinate an LOA with local air traffic management via the COA process. The FAA finds that this approach facilitates consistency between the exemption and the COA.

The petitioner proposed operating UAS at speeds no faster than 40 kts to ensure safety during UAS operations. The FAA agrees that operations at no greater than 40 kts (46 MPH) ensure safe operation of the UAS.

Public Interest

The FAA finds that a grant of exemption is in the public interest. The exemption ensures safe progression of UAS integration into the National Airspace System (NAS) and therefore gives the FAA good cause to find that the UAS operation enabled by this exemption is in the public interest.

The following table summarizes the FAA's determinations regarding the relief sought by the petitioner for its operations and granted by the FAA:

Relief considered (14 CFR)	**FAA determination (14 CFR)**
61.113(a) and (b)	Relief granted with conditions and limitations
91.119(c)	Relief granted with conditions and limitations
91.121	Relief granted with conditions and limitations

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Relief considered (14 CFR)	FAA determination (14 CFR)
91.151(a)	Relief granted with conditions and limitations
91.209 (a)	Relief granted with conditions and limitations
91.405 (b)	Relief not granted
91.405(a)	Relief granted with conditions and limitations
91.407(a)(1)	Relief granted with conditions and limitations
91.409(a)(1) and (2)	Relief granted with conditions and limitations
91.417(a) and (b)	Relief granted with conditions and limitations

The FAA's Decision

In consideration of the foregoing, I find that a grant of exemption is in the public interest. Therefore, pursuant to the authority contained in 49 U.S.C. §§ 106(f), 40113, and 44701, delegated to me by the Administrator, Astraeus Aerial is granted an exemption from 14 CFR §§ 61.113(a) and (b), 91.119(c), 91.121, 91.151(a), 91.209 (a), 91.405(a), 91.407(a)(1), 91.409(a)(1) and (2), and 91.417(a) and (b) to the extent necessary to allow the petitioner to conduct UAS operations according to the conditions and limitations listed below.

Conditions and Limitations

1. The operator is authorized by this grant of exemption to use their V.4CS aircraft at 75 pounds including payload.

2. The UA may not be operated at a speed exceeding 40 knots (56 miles per hour). The operator may use either groundspeed or calibrated airspeed to determine compliance with the 40-knot speed restriction. In no case may the UA be operated at airspeeds greater than the maximum UA operating airspeed recommended by the aircraft manufacturer.

3. Unless the COA or other subsequently-issued FAA authorization specifies an altitude restriction lower than 400 feet AGL, operations under this exemption may not exceed 400 feet AGL.

4. If operations under this exemption involve the use of foreign civil aircraft[2] the operator would need to obtain a Foreign Aircraft Permit pursuant to § 375.41 before conducting any commercial air operations under this authority. Application

[2] *Foreign civil aircraft* means (a) an aircraft of foreign registry that is not part of the armed forces of a foreign nation, or (b) a U.S.-registered aircraft owned, controlled or operated by persons who are not citizens or permanent residents of the United States. 14 CFR § 375.1.

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instructions are specified in 14 CFR §375.43. Applications should be submitted by electronic mail to the DOT Office of International Aviation, Foreign Air Carrier Licensing Division. Additional information can be obtained via https://cms.dot.gov/policy/aviation-policy/licensing/foreign-carriers.

5. *Air Traffic Organization (ATO)* COA. All operations must be conducted in accordance with an ATO-issued COA. The exemption holder must apply for a new or amended COA if it intends to conduct operations that cannot be conducted under the terms of the enclosed COA. If a conflict between the COA and this exemption exists, the more restrictive provision applies.

6. The PIC must have the capability to maintain VLOS at all times. This requires the PIC to be able to use human vision unaided by any device other than corrective lenses, as specified on that individual's FAA-issued airman medical certificate or valid U.S. driver's license issued by a state, the District of Columbia, Puerto Rico, a territory, a possession, or the Federal Government, to see the UA.

7. All operations must utilize a visual observer (VO). The UA must be operated within the VLOS of the VO at all times. The VO must use human vision unaided by any device other than corrective lenses to see the UA. The VO and the PIC must be able to communicate verbally at all times. Electronic messaging or texting is not permitted during flight operations. The PIC must be designated before the flight and cannot transfer his or her designation for the duration of the flight. The PIC must ensure that the VO can perform the duties required of the VO.

8. This exemption and all documents needed to operate the UAS and conduct its operations in accordance with the conditions and limitations stated in this grant of exemption, are hereinafter referred to as the operating documents. The operating documents must be accessible during UAS operations and made available to the Administrator upon request. If a discrepancy exists between the conditions and limitations in this exemption and the procedures outlined in the operating documents, the conditions and limitations herein take precedence and must be followed. Otherwise, the operator must follow the procedures as outlined in its operating documents. The operator may update or revise its operating documents. It is the operator's responsibility to track such revisions and present updated and revised documents to the Administrator or any law enforcement official upon request. The operator must also present updated and revised documents if it petitions for extension or amendment to this grant of exemption. If the operator determines that any update or revision would affect the basis upon which the FAA granted this exemption, then the operator must petition for an amendment to its grant of exemption. The FAA's Flight Standards Service may be contacted via email at: 9-AWA-AVS-AFS-800-Exemptions@faa.gov if questions arise regarding updates or revisions to the operating documents.

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9. Any UAS that has undergone maintenance or alterations that affect the UAS operation or flight characteristics, e.g., replacement of a flight-critical component, must undergo a functional test flight prior to conducting further operations under this exemption. Functional test flights must be conducted by a PIC with a VO and other personnel required to conduct the functional flight test (such as a mechanic or technician) and must remain at least 500 feet from all other people. The functional test flight must be conducted in such a manner not to pose an undue hazard to persons and property.

10. The operator is responsible for maintaining and inspecting the UAS to ensure that it is in a condition for safe operation.

11. Prior to each flight, the PIC must conduct a pre-flight inspection and determine the UAS is in a condition for safe flight. The pre-flight inspection must account for all potential discrepancies, e.g., inoperable components, items, or equipment. If the inspection reveals a condition that affects the safe operation of the UAS, the aircraft is prohibited from operating until the necessary maintenance has been performed and the UAS is found to be in a condition for safe flight.

12. The operator must follow the UAS manufacturer's maintenance, overhaul, replacement, inspection, and life limit requirements for the aircraft and aircraft components. Each UAS operated under this exemption must comply with all manufacturer safety bulletins.

13. *PIC certification:* Under this grant of exemption, a PIC must hold either:

    a. *For daytime operations.* An airline transport, commercial, private, recreational, or sport pilot certificate. The PIC must also hold a current FAA airman medical certificate or a valid U.S. driver's license issued by a state, the District of Columbia, Puerto Rico, a territory, a possession, or the Federal government. The PIC must also meet the flight review requirements specified in 14 CFR § 61.56 in an aircraft in which the PIC is rated on his or her pilot certificate.

    b. *For night operations.* An airline transport, commercial, or private pilot certificate that allows night operations. The PIC must also hold a current FAA airman medical certificate. The PIC must also meet the flight review requirements specified in 14 CFR § 61.56 in an aircraft in which the PIC is rated on his or her pilot certificate.

14. *PIC qualifications:* The PIC must demonstrate the ability to safely operate the UAS in a manner consistent with how it will be operated under this exemption, including evasive and emergency maneuvers and maintaining appropriate distances from persons, vessels, vehicles, and structures before operating flights other than training, proficiency, or experience-building under this exemption. PIC qualification flight hours and currency may be logged in a manner consistent with 14 CFR § 61.51(b); however, UAS pilots must not log this time in the same

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columns or categories as time accrued during manned flight. UAS flight time must not be recorded as part of total time.

15. Under all situations, the PIC is responsible for the safety of the operation. The PIC is also responsible for meeting all applicable conditions and limitations as prescribed in this exemption, the ATO-issued COA, and the Astraeus operating documents. The operation must be conducted with a dedicated VO who is assigned no other duties during the operation and who may not serve as the PIC during the flight. The VO must maintain visual sight of the aircraft at all times during flight operations without distraction in accordance with the conditions and limitations below. Flight operations must maintain a distance based upon aircraft speed, from participating individuals not part of the film crew (RPIC, VOs, etc.) as follows:

10 knots or less	50 feet
10-20 knots	100 feet
Over 20 knots	150 feet

The minimum distance from nonparticipating, unprotected individuals shall be 500 feet. All training operations must be conducted during dedicated training sessions and may not be for compensation or hire.

16. UAS operations may be conducted during night, as defined in 14 CFR § 1.1, provided:

a. The PIC must proficiently operate the UAS at night prior to conducting nighttime commercial operations.

b. All flight operations occur within 100 feet of the boundaries of a permanent structure and no higher than 400 feet AGL.

c. The UAS is equipped with lighted anti-collision lighting visible for at least 3 statute miles.

d. The UAS is equipped to inform the PIC of accurate position, altitude, attitude, speed, and heading of the aircraft throughout the flight operation.

e. The petitioner will conduct a daytime site assessment to note hazards and obstacles that may be difficult to see in low light conditions.

f. The PIC and VO are in place 30 minutes prior to night operations to ensure dark adaptation.

g. The takeoff and landing areas are lighted, thereby allowing the PIC to see the distance between the aircraft and ground during takeoff and landing and enabling the observer to ensure that non-participants remain at a safe distance.

17. All operations must be conducted under visual meteorological conditions. Flights under special visual flight rules are not authorized.

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18. The UA may not be operated less than 500 feet below or less than 2,000 feet horizontally from a cloud, or when visibility is less than 3 statute miles from the PIC.

19. For UAS operations where GPS signal is necessary to safely operate the UA, the PIC must immediately recover/land the UA upon loss of GPS signal.

20. If the PIC loses command or control link with the UA, the UA must follow a predetermined route to either reestablish link or immediately recover or land.

21. The PIC must abort the flight operation if unpredicted circumstances or emergencies arise that could potentially degrade the safety of persons or property. The PIC must terminate flight operations without causing undue hazard to persons or property in the air or on the ground.

22. The PIC is prohibited from beginning a flight unless (considering wind and forecast weather conditions) there is enough available power for the UA to conduct the intended operation with 25% battery capacity remaining or with the reserve power recommended by the manufacturer, whichever is greater.

23. All aircraft operated in accordance with this exemption must be registered in accordance with 14 CFR part 47 and have identification markings in accordance with 14 CFR part 45, Subpart C.

24. Documents used by the operator to ensure the safe operation and flight of the UAS and any documents required under 14 CFR §§ 91.9 and 91.203 must be available to the PIC at the ground control station of the UAS any time the aircraft is operating. These documents must be made available to the Administrator or any law enforcement official upon request.

25. The UA must remain clear of and give way to any manned aircraft at all times.

26. The UAS may not be operated by the PIC from any moving device or vehicle, with the exception that, in operations over water, the UAS may be operated by the PIC from a moving vessel, to the extent necessary to allow the vessel to (1) make sufficient headway to augment and maintain stability in prevailing wind and sea conditions, (2) adjust heading in order to maintain optimal VLOS and RF signal strength, or (3) navigate safely and in compliance with relevant maritime rules and regulations.

27. All flight operations must be conducted at least 500 feet from all nonparticipating persons, vessels, vehicles, and structures unless:

    a. Barriers or structures are present that sufficiently protect nonparticipating persons from the UA and/or debris in the event of an accident. The operator

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must ensure that nonparticipating persons remain under such protection. If a situation arises where nonparticipating persons leave such protection and are within 500 feet of the UA, flight operations must cease immediately in a manner ensuring the safety of nonparticipating persons; and

b. The owner/controller of any vessels, vehicles, or structures has granted permission for operating closer to those objects and the PIC has made a safety assessment of the risk of operating closer to those objects and determined that it does not present an undue hazard.

28. All operations shall be conducted over private or controlled-access property with permission from a person with legal authority to grant access. Permission will be obtained for each flight to be conducted.

29. Any incident, accident, or flight operation that transgresses the lateral or vertical boundaries of the operational area as defined by the applicable COA, must be reported to the FAA's UAS Integration Office within 24 hours. Accidents must be reported to the National Transportation Safety Board in accordance with its UAS accident-reporting requirements.

30. The operator must have a motion picture and television operations manual (MPTOM) as documented in this grant of exemption.

31. At least 3 days before aerial filming, the operator of the UAS affected by this exemption must submit a written Plan of Activities to the local Flight Standards District Office (FSDO) with jurisdiction over the area of proposed filming. The 3-day notification may be waived with the concurrence of the FSDO. The plan of activities must include at least the following:

    a. Dates and times for all flights;
    b. Name and phone number of the operator for the UAS aerial filming conducted under this grant of exemption;
    c. Name and phone number of the person responsible for the on-scene operation of the UAS;
    d. Make, model, and serial or registration number of UAS to be used;
    e. Name and certificate number of UAS PICs involved in the aerial filming;
    f. A statement that, prior to beginning flight operations, the operator obtains permission from property owners and/or local officials to conduct the filming production event. The list of those giving permission will be made available to the Administrator or any law enforcement official upon request.
    g. Signature of exemption holder or representative; and
    h. A description of the flight activity, including maps or diagrams of any area, city, town, county, and/or state over which filming will be conducted and the altitudes essential to accomplish the operation.

NOT A PERMIT

32. In accordance with this exemption, the Plan of Activities and all other operating documents must be accessible to the PIC during UAS operations. A new Plan of Activities must be submitted should there be any changes to items (a) through (h) of condition and limitation No. 31.

Unless otherwise specified in this exemption, the UAS, the UAS PIC, and the UAS operations must comply with all applicable parts of 14 CFR including, but not limited to, parts 45, 47, 61, and 91.

This exemption terminates on October 31, 2020, unless sooner superseded or rescinded.

Issued in Washington, D.C., on October 3, 2018.

/s/
Rick Domingo
Executive Director, Flight Standards Service

NOT A PERMIT

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

CERTIFICATE OF WAIVER OR AUTHORIZATION

ISSUED TO

Astraeus Aerial
Responsible Person: David Wagreich
Waiver Number: 107W-2016-00601D

ADDRESS –

2708 Wilshire Blvd., Ste. 383
Santa Monica, CA 90403

This certificate is issued for the operations specifically described hereinafter. No person shall conduct any operation pursuant to the authority of this certificate except in accordance with the standard and special provisions contained in this certificate, and such other requirements of the Federal Aviation Regulations not specifically waived by this certificate.

OPERATIONS AUTHORIZED

Night small Unmanned Aircraft System (sUAS) operations, first person view in lieu of visual line of sight operations by the remote pilot in command, and operating more than one sUAS at the same time.

LIST OF WAIVED REGULATIONS BY SECTION AND TITLE

14 CFR § 107.29 Daylight operation
14 CFR § 107.31 Visual line of sight operations
14 CFR § 107.35 Operation of multiple small unmanned aircraft

STANDARD PROVISIONS

1. A copy of the application made for this certificate shall be attached to and become a part hereof.
2. This certificate shall be presented for inspection upon the request of any authorized representative of the Administrator of the Federal Aviation Administration, or of any State or municipal official charged with the duty of enforcing local laws or regulations.
3. The holder of this certificate shall be responsible for the strict observance of the terms and provisions contained herein.
4. This certificate is nontransferable.

NOTE—This certificate constitutes a waiver of those Federal rules or regulations specifically referred to above. It does not constitute a waiver of any State law or local ordinance.

SPECIAL PROVISIONS

Special Provisions Nos. 1 to 24, inclusive, are set forth on the attached pages.

This Certificate of Waiver is effective from January 05, 2017 to August 31, 2021 and is subject to cancellation at any time upon notice by the Administrator or an authorized representative.

BY DIRECTION OF THE ADMINISTRATOR

JOSEPH V FAGAN JR

Digitally signed by JOSEPH V FAGAN JR
Date: 2018.01.08 06:49:29 -05'00'

General Aviation and Commercial Division, AFS-800

NOT A PERMIT

FAA Form 7711-1 (7-74) CC:

SPECIAL PROVISIONS ISSUED TO
Astraeus Aerial

General.

This Certificate of Waiver is an amendment which supersedes and replaces Waiver 107W-2016-00601C issued to Astraeus Aerial for operations under 14 CFR 107. Waivers 107W-2017-00901C, 107W-2016-00601B, 107W-2016-00601A, and 107W-2016-00601 are no longer valid.

The FAA's Flight Standards Service has reviewed your application to ensure compliance with the requirements of 14 CFR § 107.200. The Administrator finds that the proposed sUAS operation can be conducted safely under the provisions of this Certificate of Waiver (Waiver) as listed below, because you have established adequate mitigations for risks involved with operating your sUAS in the manner you described. Adherence to the provisions of this Waiver establishes the required level of safety within the national airspace system.

This Waiver may be canceled at any time by the Administrator, the person authorized to grant the Waiver, or the representative designated to monitor a specific operation. As a general rule, this Waiver may be canceled when it is no longer required, there is an abuse of its provisions, or when unforeseen safety factors develop. Failure to comply with any provision listed below is a violation of the terms of this Waiver and may serve as justification for cancellation.

List of Regulations Waived by Section and Title. The following regulations are waived:

14 CFR § 107.29, Daylight operation, is waived to allow sUAS operations during night.

14 CFR § 107.31, Visual line of sight aircraft operation is waived to the extent necessary to allow the remote pilot in command (PIC) to operate the small unmanned aircraft (sUA) with first person view (FPV), in lieu of visual line of sight, while a second remote pilot, who holds a valid remote pilot certificate under part 107, acts as Visual Observer (VO), and exercises the ability to see the sUA throughout the entire flight.

14 CFR § 107.35 Operation of multiple small unmanned aircraft.

Common Provisions. The Responsible Person is directly responsible for safety of operations conducted under this Waiver and will ensure the remote PIC, manipulator of the controls, and VO complies with all provisions of this Waiver.

1. The Responsible Person listed on the Waiver is responsible to the FAA for the safe conduct of the operations. Prior to conducting operations that are the subject of this Waiver, the responsible person:
   a. Must ensure the remote PIC, manipulators of the controls, and VO are informed on the terms and provisions of this waiver and the strict observance of the terms and provisions herein;
   b. Must ensure the remote PIC, manipulators of the controls, and VO are informed and familiar with part 107 regulations not waived; and
   c. The above must be documented and must be presented for inspection upon request from the Administrator or an authorized representative.

NOT A PERMIT

2. This Waiver must not be combined with any other waiver(s), authorizations(s), or exemption(s) without specific authorization from the FAA;

3. The FAA has the authority to cancel or delay any or all flight operations if the safety of persons or property on the ground or in the air, are in jeopardy or there is a violation of the terms of this Waiver;

4. Operations under this Waiver are to be conducted in Class G airspace only unless specific airspace authorization or Waiver is received from the FAA in accordance with § 107.41;

5. A copy of this Waiver must be available during sUAS operations that are the subject of this Waiver;

6. The Responsible Person listed on this Waiver must maintain a current list of pilots by name and remote pilot certificate number used in the Waiver holder's operations. This list must be presented for inspection upon request from the Administrator or an authorized representative;

7. The Responsible Person listed on this Waiver must maintain a current list of small unmanned aircraft (sUA) by registration number(s) used in the Waiver holder's operations. This list must be presented for inspection upon request from the Administrator or an authorized representative;

8. All operations under this Waiver must use one or more VO;

Night sUAS Operations Special Provisions. sUAS operations may be conducted at night, as defined in 14 CFR § 1.1, provided:

9. As described in the Waiver application, the remote PIC and VO must be trained, to recognize and overcome visual illusions caused by darkness, and understand physiological conditions which may degrade night vision prior to conducting operations that are the subject of this Waiver. This training must be documented and must be presented for inspection upon request from the Administrator or an authorized representative;

10. The area of operation must be sufficiently illuminated to allow both the remote PIC and VO to identify people or obstacles on the ground, or the remote PIC and VO must conduct a daytime site assessment prior to conducting operations that are the subject of this Waiver, noting any hazards or obstructions;

11. The sUA must be equipped with lighted anti-collision lighting visible from a distance of no less than 3 statute miles. The intensity of the anti-collision lighting may be reduced if, because of operating conditions, it would be in the interest of safety to do so;

NOT A PERMIT

Visual Line of Sight Operations Special Provisions. sUAS operations may be conducted with the remote pilot in command using FPV, in lieu of visual line of sight, provided:

12. At all times, at least one person who holds a remote pilot certificate under part 107 must maintain visual line of sight (VLOS) of the sUA in order to (1) know the sUA's location, (2) determine the sUA's attitude, altitude and direction of flight, (3) observe the airspace for other air traffic or hazards and (4) determine that the sUA does not endanger the life or property of another. The remote pilot maintaining VLOS may act as a required VO while the remote PIC, located within the base station vehicle, uses FPV while manipulating the controls, in lieu of VLOS, to operate the sUA;

13. Communication between the remote PIC and the remote pilot maintaining VLOS, acting as a VO, must allow for the remote PIC to maneuver the sUA with sufficient time to perform necessary maneuvers to avoid other aircraft in accordance with § 107.37, or react to any unforeseen operational or mechanical failure;

14. As described in the waiver application, operations that are the subject of this Waiver must remain within VLOS of the remote pilot, acting as VO, at all times while the remote PIC, located within the base station vehicle, uses FPV while manipulating the controls, in lieu of VLOS, to operate the sUA;

15. As described in the waiver application, prior to and during operations that are the subject of this Waiver, the "override" feature of the sUA must operate properly so that the remote pilot, acting as VO, has continuous control and override capability of the sUA while the remote PIC operates the sUA using FPV;

16. As described in the waiver application, prior to conducting operations that are the subject of this Waiver, the remote PIC and the remote pilot acting as VO must maintain continuous full-duplex voice communication;

17. As described in the waiver application, the remote PIC must fulfill the requirements of § 107.15(a) for all components of the sUAS;

18. All sUA operations conducted in accordance with this Waiver must comply with the manufacturer User Manual, including recommendations and limitations;

Operation of Multiple sUAS Special Provisions. sUAS operations with multiple sUA may be conducted, provided:

19. Prior to conducting operations that are the subject of this Waiver, operational area obstacles and boundaries must be identified so as to avoid collision with, or damage to property;

20. An individual system failure must not interfere with the operation of any other sUA or cause incidents, accidents, or loss of control involving any other sUA that are subject to this Waiver;

NOT A PERMIT

21. As described in the waiver application, operations are only permitted within a location closed to the general public, with a secured perimeter;

22. As described in the waiver application, operations using multiple sUA are limited to not more than 6 sUA at a time and will not exceed 30 knots groundspeed (35 mph);

23. As described in the waiver application, prior to conducting operations that are the subject of this Waiver, the flight controller and the associated flight control system capability for each aircraft, operate properly; and

24. Not less than 24 hours prior to conducting operations that are the subject of this Waiver, a Notice to Airmen (NOTAM) must be filed. The NOTAM must include location, altitude, and/or operating area, time and nature of the activity, and number of sUA flying in the operating area.

NOT A PERMIT

Small UAS Certificate of Registration

Name: Astraeus Aerial LLC

Manufacturer: Astraeus Aerial

Model: v3cs

Serial Number: 0008

Certificate Number: FA3MXFKETF

Issued: 12/20/2017 **Expires:** 12/20/2023

994

For U.S. citizens, permanent residents, and certain non-citizen U.S. corporations, this document constitutes a Certificate of Registration. For all others, this document represents a recognition of ownership.

Operators of unmanned aircraft must ensure they comply with the appropriate safety authority from the FAA and economic authority from the DOT. To operate as a recreational flyer, a person must meet all of the statutory conditions of the exception for limited recreational operations of unmanned aircraft (49 U.S.C. 44809). Persons who do not meet any of the statutory conditions may not operate under the statutory exception for limited recreational operations of unmanned aircraft and would need to operate the unmanned aircraft under part 107 or any other applicable FAA authority.

This Small UAS Certificate of Registration is not an authorization to conduct flight operations with an unmanned aircraft. Operations must be conducted in accordance with the applicable FAA requirements. The operator of the aircraft is responsible for knowing and understanding what those requirements are. For more information on flying for non-model purposes, please visit the FAA website at www.faa.gov/uas.

Certificate of Achievement

This is to certify that

Corey Michael Gineris

has successfully completed the
FAA Safety Team Aviation Learning Center Online Course

Part 107 Small Unmanned Aircraft Systems (Small Uas) Recurrent

Course Number ALC-515

Presented by Online Courses

January 11, 2019

Federal Aviation Administration

Valerie G Palazzolo, National Manager, FAA Safety Team

Certificate Number 0854640-20190111-00515

I UNITED STATES OF AMERICA XI
DEPARTMENT OF TRANSPORTATION • FEDERAL AVIATION ADMINISTRATION
IV NAME
COREY MICHAEL GINERIS
V ADDRESS 29660 MAMMOTH LN
SANTA CLARITA CA 91387-6232
VI NATIONALITY USA
IVa D.O.B. 16 AUG 1994
SEX HEIGHT WEIGHT HAIR EYES
M 69 185 BROWN BROWN
IX HAS BEEN FOUND TO BE PROPERLY QUALIFIED TO EXERCISE THE PRIVILEGES OF
II REMOTE PILOT
III CERTIFICATE NUMBER 3927618
X DATE OF ISSUE 11 OCT 2016
XIV
VIII ADMINISTRATOR
U
A
S

NOT A PERMIT

Small UAS Certificate of Registration

Name: Astraeus Aerial LLC

Manufacturer: Freefly

Model: Alta 8

A

Serial Number: 709915

Certificate Number: FA3LC9AKFA

Issued: 07/27/2018 Expires: 07/27/2021

For U.S. citizens, permanent residents, and certain non-citizen U.S. corporations, this document constitutes a Certificate of Registration. For all others, this document represents a recognition of ownership.

For all holders, for all operations other than as a model aircraft under sec. 336 of Pub. L. 112-95, additional safety authority from FAA and economic authority from DOT may be required.

This Small UAS Certificate of Registration is not an authorization to conduct flight operations with an unmanned aircraft. Operations must be conducted in accordance with the applicable FAA requirements. The operator of the aircraft is responsible for knowing and understanding what those requirements are. For more information on flying for non-model purposes, please visit the FAA website at www.faa.gov/uas

Alta A - AAA08A

Federal Aviation Administration

Small UAS Certificate of Registration

Name: Astraeus Aerial LLC

Manufacturer: Freefly

Model: Alta 8

B

Serial Number: 447474

Certificate Number: FA3R9A4FAX

Issued: 08/14/2018 Expires: 08/14/2021

For U.S. citizens, permanent residents, and certain non-citizen U.S. corporations, this document constitutes a Certificate of Registration. For all others, this document represents a recognition of ownership.

For all holders, for all operations other than as a model aircraft under sec. 336 of Pub. L. 112-95, additional safety authority from FAA and economic authority from DOT may be required.

This Small UAS Certificate of Registration is not an authorization to conduct flight operations with an unmanned aircraft. Operations must be conducted in accordance with the applicable FAA requirements. The operator of the aircraft is responsible for knowing and understanding what those requirements are. For more information on flying for non-model purposes, please visit the FAA website at www.faa.gov/uas

Alta B - AAA08B

Federal Aviation Administration

NOT PERMIT

ASTRAEUS
AERIAL CINEMA SYSTEM

PLAN OF ACTIVITY

For Part 107 sUAS Image-Capture Operations

Prepared By: Hal Winer – Director of Operations Phone: 914-523-6044

PRODUCTION, EPISODE/NUMBER:
Haiku #87

PRODUCTION COMPANY, **CONTACT**:
Back Breaker Films, Inc. **Bryan Yaconelli (310) 717-7779 (c) (310) 244-2962 (w)**
bryanyaconelli@gmail.com

DATES AND TIMES OF OPERATION:
December 13, 2020, 5am – 8pm

MAKE, MODEL, AND REGISTRATION NUMBER OF UAS(S) TO BE USED:
Astraeus Aerial X8, FA3MXFKETF(94) – Primary UAS
Freefly Alta 8, FA3LC9AKFA (A) & FA3R9A4FAX (B) – Backup UAS

REMOTE PILOT(S):
Corey Gineris, Remote Pilot certificate #3927618

VISUAL OBSERVER/ON-SCENE FLIGHT CREW CONTACT:
Travis Samson (206) 604-2212

LOCATION 1: Near 42657 150th E, Lancaster, CA 93535		**LOCATION 2:**		**LOCATION 3:**	
LAT/LONG: 34°39'36.7"N 117°52'02.7"W	**OPS RADIUS:** 2NM	**LAT/LONG:**	**OPS RADIUS:**	**LAT/LONG:**	**OPS RADIUS:**
ELEVATION: ' MSL	**ALTITUDES:** Surface to 400' AGL	**ELEVATION:**	**ALTITUDES:**	**ELEVATION:**	**ALTITUDES:**
NEAREST AIRPORT: Edwards AFB		**NEAREST AIRPORT:**		**NEAREST AIRPORT:**	

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2708 Wilshire Blvd., Ste. 383 Santa Monica, CA 90403 (310) 907-9205

ASTRAEUS
AERIAL CINEMA SYSTEM

AIRSPACE:
B □ **C** □ **D** □ **E** □ **G** ☒

AIRSPACE AUTHORIZATION (Part 107.41):
None required □ **Number:**

CERTIFICATE OF WAIVER
None required □ **Number:** 107W-2016-00601D, attached

PROHIBITED OR RESTRICTED AIRSPACE
No ☒ **Authorized by:** **Contact info:**

DESCRIPTION OF TERRAIN (boundaries, natural barriers, critical/sensitive features):

Rural/Desert area, sparse trees and low brush, no significant development nearby.

LOCATION MANAGER, CONTACT INFO:	**OWNER OR SITE REPRESENTATIVE:**
Dan Williams 310-704-4779 cell kidcincinnati@gmail.com	

DESCRIPTION OF SHOTS/SHOT LIST:

Establishing, overhead and tracking shots of person running in the high desert. No Direct overflight of people. ITC and protected perimeter. Closed Set.

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ASTRAEUS
AERIAL CINEMA SYSTEM

SAFETY AND SECURITY PLAN:
This filming location will be closed to non-participants, and UAS operations will take place within a safety perimeter controlled by production and security personnel, with appropriate road closures and/or ITC. Flight operations will be suspended immediately if non-participants enter the safety perimeter, or if any other condition jeopardizes safety of flight. As specified in Part 107.39: operations will only take place over people if they are "located under a covered structure" or inside a "vehicle that can provide reasonable protection from a falling small unmanned aircraft."

Class ABC fire extinguishers will be available at all times.

Per the standard established in Astraeus Aerial's Section 333 *Motion Picture and Television Operations Manual*, flight crew will maintain the following:

- Non-essential production personnel will remain a minimum of 100' from flight operations.
- Essential production personnel MAY be permitted less than 100' from flight operations, upon acknowledgement of the risks involved, and only at the discretion of the Flight Crew.

PRIOR TO UAS OPERATIONS, FLIGHT CREW MUST BRIEF ALL PERSONNEL WHO WILL BE ON SET.

COMMUNICATIONS:
Voice: between PIC and Visual Observer
Radio, Primary Channel: duplex radio intercom used as necessary by Astraeus Aerial personnel
Radio, Secondary Channel: per production

PERSON RESPONSIBLE FOR SAFETY PERIMETER:
1st AD -

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ASTRAEUS
AERIAL CINEMA SYSTEM

LOCATION MAPS / DIAGRAMS

NO PERMIT

2708 Wilshire Blvd., Ste. 383 Santa Monica, CA 90403 (310) 907-9205

Permit #F00166292

JOSHUA TREES ARE STATE AND COUNTY PROTECTED

Effective October 9, 2020, the western Joshua tree ("Joshua tree") is a Candidate species for listing under the California Endangered Species Act (CESA). As a Candidate species, the Joshua tree has full protection under CESA, and any activity that results in the removal of a Joshua tree, or any part thereof, or impacts the seedbank surrounding one or more Joshua trees is subject to an Incidental Take Permit (ITP), which may be obtained from the California Department of Fish & Wildlife (CDFW).

General Permitting

Ministerial projects will continue to proceed as prior to the Joshua tree listing. However, applicants MUST apply for an ITP with CDFW where Joshua trees may be affected. If an applicant knows or suspects they may need an ITP, they can contact Victoria Tang at Victoria.Tang@wildlife.ca.gov with questions or requests.

Within **Significant Ecological Areas** (SEAs), Joshua trees are now a Category 1 SEA Resource, and impacts to Joshua trees will automatically require a SEA Conditional Use Permit (CUP). Single-family residences in the Antelope Valley Planning Area are still exempt from the ordinance, so they will not need the SEA CUP but will require an ITP from CDFW.

Discretionary projects inside and outside of the SEAs, may require mitigation for impacts to Joshua trees, subject to an ITP. As the CEQA lead agency, the County will work with applicants to develop and apply mitigation measures so that an ITP may be issued by CDFW without the project having to undergo major project revisions. Where mitigation is required, land acquisition is favored over translocation or replanting.

Emergency Exemption for Wildfire Debris Removal

Governor Newsom has issued an Order that allows for debris removal without permits within recently burned areas throughout California, and CDFW has determined removal of dead Joshua trees associated with debris removal will not require an ITP. **The debris removal exemption applies ONLY to trees or parts of trees that have BROKEN OFF AND ARE NO LONGER AFFIXED TO THE GROUND**. Due to the ability of Joshua trees to resprout after fire, any trees or stumps still affixed to the ground are capable of resprouting, and therefore cannot be removed as a part of debris removal without an ITP. Seeds located on the ground within the vicinity of the Joshua trees also need to remain undisturbed. Therefore, in order to avoid "take" of living Joshua trees or seedbank, the following should be used as a guide to determine where manual debris removal is employed and mechanized debris removal is excluded:

Joshua tree height	Minimum radius for manual debris removal
16.5 feet or greater	40 feet
3.4 – 16.4 feet	12 feet
3.3 feet or less	6 feet

If an area contains Joshua trees of varying height, the largest radius should be used for manual debris removal.

zoningldcc@planning.lacounty.gov
(213) 974-6411

Enforcement: For suspected unpermitted Joshua tree removal, call the CALTip line: 1-888-334-CALTip (1-888-334-2258).

NOT A PERMIT

Permit #F00166292

COUNTY OF LOS ANGELES FIRE DEPARTMENT
FIRE PREVENTION DIVISION - PUBLIC SAFETY & FILM UNIT

14425 Olive View Drive, Sylmar, California 91342
Office (818) 364-8240 FAX (818) 364-8242
psfu@fire.lacounty.gov

SPECIAL EFFECTS PERMIT

IN ACCORDANCE WITH CHAPTER 1, SECTION 105, AND CHAPTER 48 OF THE 2017 L.A. COUNTY FIRE CODE AND/OR IN ACCORDANCE WITH TITLE 19, CALIFORNIA CODE OF REGULATIONS, FOR THE FOLLOWING:

This permit shall constitute permission to use pyrotechnic special effects, open flame, flammable or combustible liquids and gases, welding, and the parking of motor vehicles in any building or location for the purpose of motion picture and television commercial production. This permit allows for the purchase, transport, storage, use and disposal of the prescribed pyrotechnical devices listed below. The Special Effects Permit fee is $288.00.

Permit Number: 20-FX323-114 **Film Permit Number:** 20-1935-114/117 / F166292

Production Title: Back Breaker Films **Location Manager:** Dan Williams
Production Company: Haiku 87 **Phone Number:** 310-704-4779

Pyro-technician in Charge: Jim Schwalm **Office Phone Number:**
State Fire Marshal License: 1102-06 **FAX Number:**
Cell Phone Number: 661-644-3082 **Email:** Jim.Schwalm@gmail.com

Pyrotechnic Assistant: Dino Doane **Cellphone Number:** 818-620-0359
State Fire Marshal License: 1611-08 **Email:** DinoDoane@yahoo.com
Additional: Roxanne Gross - 3310-07 - Roxanne.Gross@gmail.com

FX Location: 41657 150th Street East - Rocky Buttes **Date:** 12/13 to 12/14/20 **Time:** 0400-2200
Additional Location: 200th Street E. From E. Ave. G to Ave. J **Date:** 12/14/2020 **Time:** 0500-1200
Description of FX Scene: Small "shoot'em up. Body hits, and hits on various things, squibs.

Storage Type: ☐ Magazine ☐ Day Box ☐ Premade ☐ Mixed on Site
Lifters: ____ 1 oz. ____ 2 oz. ____ 3 oz. ____ 4 oz. ____ 6 oz. ____ 8 oz. ____ 12 oz.
Loose Black Powder: ____ **Other Powder:** ____
Sparks/Squibs: ____ Z16A ____ Z17 XXX Z17A ____ D60-1 XXX D60-3 ____ D60-6
____ D80-1/2 XXX D80-1 ____ D80-2 ____ SD70-4 ____ SD40 ____ SD100
Other Squibs: Zirc balls.
Primacord: ____ feet ____ grain ____ feet ____ grain ____ feet ____ grain
Smoke: White: XXXXX Black: ____ Other: ____
Flammable Liquids: Gasoline: ____ Diesel: ____ Rubber Cement: ____
Propane: Tanks: 2 Size: 2 gallon Tanks: ____ Size: ____ Tanks: ____ Size: ____
Other Flammables: Charcoal - Bee gum, weed burner to produce heat waves.

REQUIREMENTS: Conduct safety briefing prior to FX scene(s) and ensure the safety of everyone involved. FSA to be present during SFX . Keep any heat or open flames away from any vegetation. No minors.

Assignment: ☐FSO ☒FSA ☐FI
Water truck(s)/extinguishers: (1) 4000 gallon water truck, (2) CO2, (2) Water extinguishers.

ISSUED BY: Inspector Knipschild **DATE:** 12/11/2020

******HARD COPY REQUIRED ON-SITE******

NOT A PERMIT

Permit #F00166292

FILM LA COORDINATOR: CJ LEAVENS
FILM LA PERMIT # F-166292

CLOSURE INFO:
FULL CLOSURE OF 200TH STREET EAST
FROM AVE G-AVE-AVE J

12/14, 0500-1200

BACK BREAKER FILMS
"HAIKU"
LOCATIONS CONTACT:
CHRIS AGNEW 323-260-4777

TCP DRAWN BY:
ISMAEL RODRIGUEZ
PACIFIC TRAFFIC CONTROL, INC.
323.981.0600 PH.
LIC # 944488

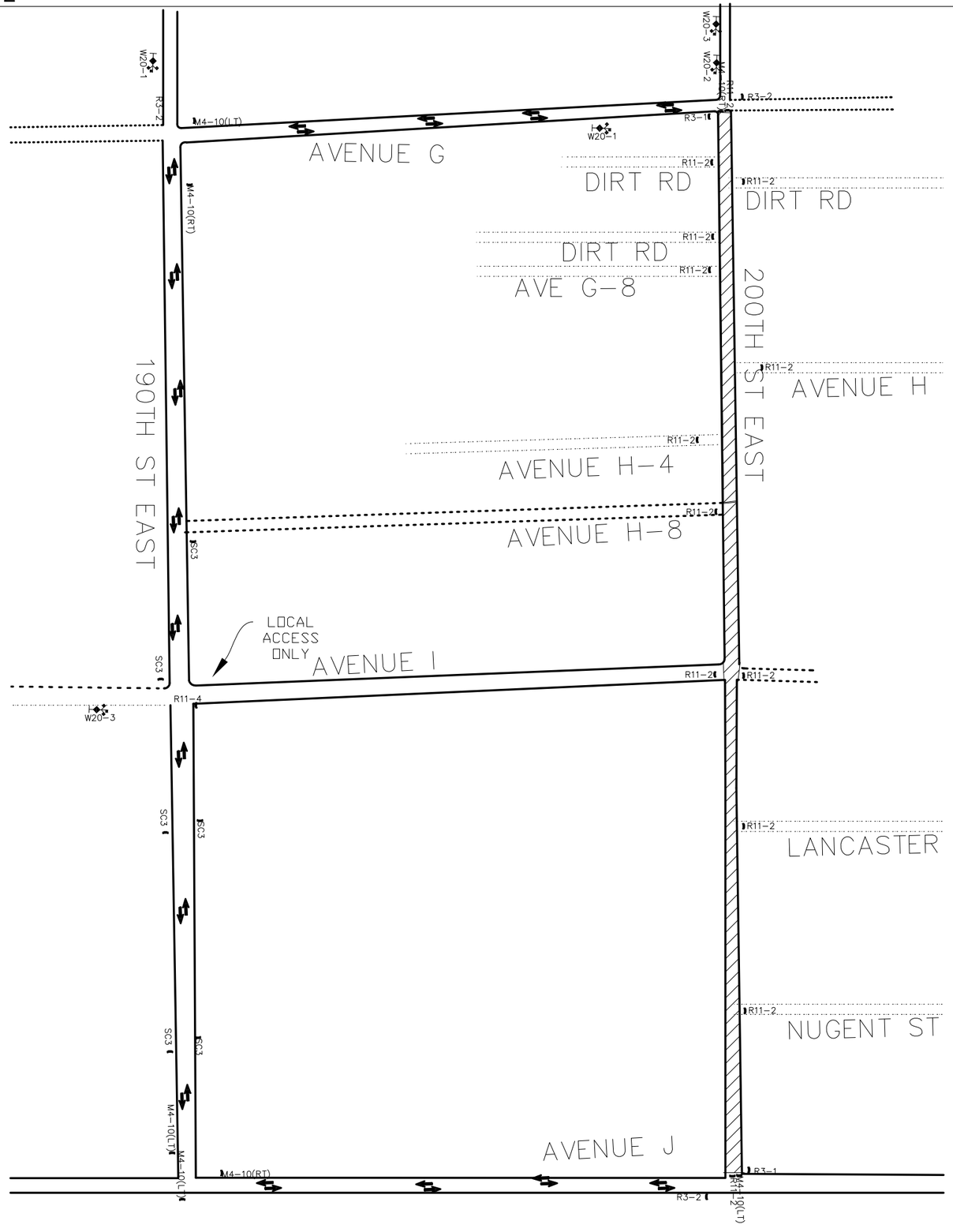
GENERAL NOTES:

1. ALL SIGNING, STRIPING, AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE CURRENT STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS AND STANDARD SPECIFICATIONS, CALIFORNIA M.U.T.C.D., AND ANY ADDENDUMS THERTO, AND AS SHOWN ON THESE PLANS.
2. THERE SHALL BE NO INTERFERENCE WITH TRAFFIC SIGNALS OR CROSSWALKS.
3. CONES SHALL BE 28" MINIMUM HEIGHT AND SHALL HAVE REFLECTORIZED SLEEVES FOR NIGHT WORK.
4. POLICE SHALL DIRECT TRAFFIC AS NECESSARY.

LEGEND:

- ADVANCE WARNING SIGN
- SIGN ON TYPE I BARRICADE
- TRAFFIC CONE 28" (REFLECTIVE)
- DETOUR ROUTE
- CLOSURE/WORK AREA

ROAD WORK AHEAD	DETOUR AHEAD	ROAD CLOSED AHEAD	LEFT: RIGHT LANE CLOSED AHEAD	LANE CLOSED	R3-1 / R3-2	W1-6(RT) / W1-6(LT)	DETOUR M4-10(RT) / DETOUR M4-10(LT)	DETOUR	END DETOUR	ROAD CLOSED	ROAD CLOSED TO THRU TRAFFIC
W20-1	W20-2	W20-3	W20-5(RT OR LT)	C30(CA)	R3-1 / R3-2	W1-6(RT) / W1-6(LT)	M4-10(RT) / M4-10(LT)	SC3	M4-8a	R11-2	R11-4



Permit #F00166292

COUNTY OF LOS ANGELES FIRE DEPARTMENT
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IN ACCORDANCE WITH CHAPTER 1, SECTION 105, AND CHAPTER 48 OF THE 2017 L.A. COUNTY FIRE CODE AND/OR IN ACCORDANCE WITH TITLE 19, CALIFORNIA CODE OF REGULATIONS, FOR THE FOLLOWING:

This permit shall constitute permission to use pyrotechnic special effects, open flame, flammable or combustible liquids and gases, welding, and the parking of motor vehicles in any building or location for the purpose of motion picture and television commercial production. This permit allows for the purchase, transport, storage, use and disposal of the prescribed pyrotechnical devices listed below. The Special Effects Permit fee is $288.00.

Permit Number: 20-FX323-114 **Film Permit Number:** 20-1935-114/117 / F166292

Production Title: Back Breaker Films **Location Manager:** Dan Williams
Production Company: Haiku 87 **Phone Number:** 310-704-4779

Pyro-technician in Charge: Jim Schwalm **Office Phone Number:**
State Fire Marshal License: 1102-06 **FAX Number:**
Cell Phone Number: 661-644-3082 **Email:** Jim.Schwalm@gmail.com

Pyrotechnic Assistant: Dino Doane **Cellphone Number:** 818-620-0359
State Fire Marshal License: 1611-08 **Email:** DinoDoane@yahoo.com
Additional: Roxanne Gross - 3310-07 - Roxanne.Gross@gmail.com

FX Location: 41657 150th Street East - Rocky Buttes **Date:** 12/13 to 12/14/20 **Time:** 0400-2200
Additional Location: 200th Street E. From E. Ave. G to Ave. J **Date:** 12/14/2020 **Time:** 0500-1200
Description of FX Scene: Small "shoot'em up. Body hits, and hits on various things, squibs.

Storage Type: ☐ Magazine ☐ Day Box ☐ Premade ☐ Mixed on Site
Lifters: ____ 1 oz. ____ 2 oz. ____ 3 oz. ____ 4 oz. ____ 6 oz. ____ 8 oz. ____ 12 oz.
Loose Black Powder: ____ **Other Powder:** ____
Sparks/Squibs: ____ Z16A ____ Z17 XXX Z17A ____ D60-1 XXX D60-3 ____ D60-6
____ D80-1/2 XXX D80-1 ____ D80-2 ____ SD70-4 ____ SD40 ____ SD100
Other Squibs: Zirc balls.
Primacord: ____ feet ____ grain ____ feet ____ grain ____ feet ____ grain
Smoke: White: XXXXX Black: ____ Other: ____
Flammable Liquids: Gasoline: ____ Diesel: ____ Rubber Cement: ____
Propane: Tanks: 2 Size: 2 gallon Tanks: ____ Size: ____ Tanks: ____ Size: ____
Other Flammables: Charcoal - Bee gum, weed burner to produce heat waves.

REQUIREMENTS: Conduct safety briefing prior to FX scene(s) and ensure the safety of everyone involved. FSA to be present during SFX . Keep any heat or open flames away from any vegetation. No minors.

Assignment: ☐FSO ☒FSA ☐FI
Water truck(s)/extinguishers: (1) 4000 gallon water truck, (2) CO2, (2) Water extinguishers.

ISSUED BY: Inspector Knipschild **DATE:** 12/11/2020

******HARD COPY REQUIRED ON-SITE******

NOT A PERMIT